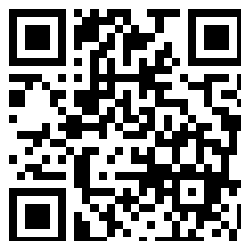

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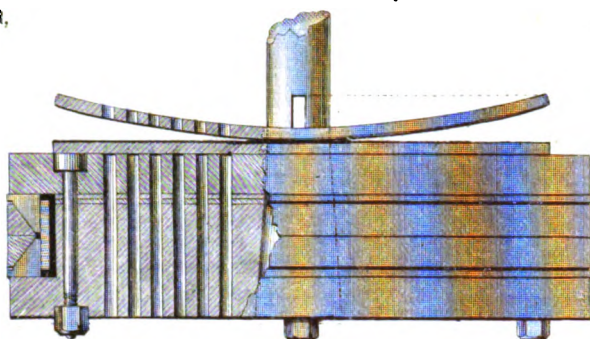
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PATENTEE & MANUFACTURER
OF THE
SELF-ACTING LUBRICATOR,

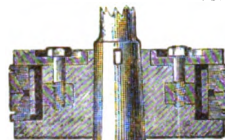


FOR STEAM ENGINES
OF EVERY DESCRIPTION.

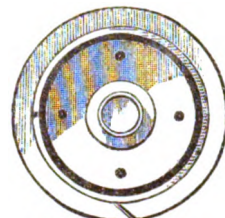


SECTION OF AIR PUMP BUCKET.

PATENTEE & MANUFACTURER
OF THE
IMPROVED METALLIC PISTON.



SECTION.



PLAN WITHOUT COVER.

EDWARD BROOKES,

ENGINEER, MACHINIST, TOOL MAKER & GENERAL MERCHANT

HIGH STREET, SHEFFIELD,

(ALL COMMUNICATIONS to be ADDRESSED to the OFFICES, HIGH-ST., SHEFFIELD.)

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BROOKES'S IMPROVED METALLIC PISTON,

The most simple in construction, and durable, and realises a GREATER SAVING IN COALS than any other.

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PREVENTS all inconvenience and LOSS OF TIME in Packing, and Saves the Cost of Hemp and Labour.

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For Steam Engines of every description, effecting a SAVING of 50 PER CENT. in TALLOW; having NO TAPS, NO VALVES, NO LEAKAGE. NO REPAIRS REQUIRED.

VERTICAL AND HORIZONTAL STEAM ENGINES AND BOILERS, STEAM PUMPS,

Punching and Shearing Machines, Planing, Shaping, Slotting, and Drilling Machines; Slide and Screw Cutting Lathes, Bolt Screwing Machines, Vertical Saw Frames, Saw Tables, General Joiner, Saw Spindles,

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ENGINEERS' AND CONTRACTORS' HAMMERS,

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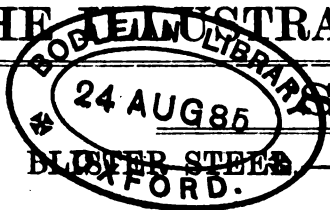
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STEEL.

BLISTER STEEL—Sykes' Genuine (L) J B Little (S)

GW.

(F)

Q

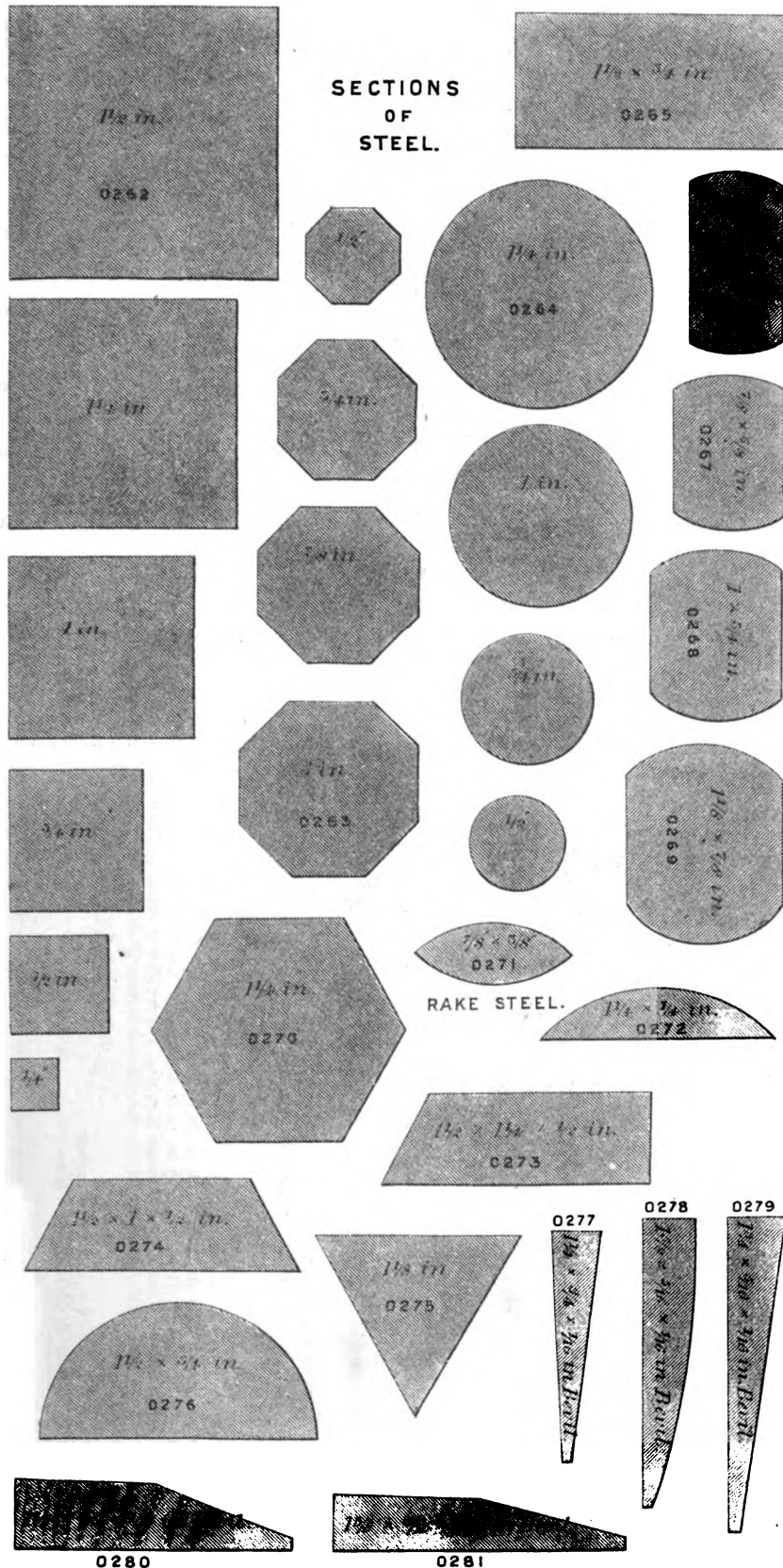
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Com SWEDES.

	Best, Warranted, per cwt.	2nd Quality very good, per cwt.	3rd Quality good, per cwt.		Best, Warranted, per cwt.	2nd Quality very good, per cwt.	3rd Quality good, per cwt.
CALICO ENGRAVERS' STEEL, Warranted CAST STEEL, for Chipping Chisels, Drills, &c. CAST STEEL, for Turning Tools and Planing Tools IMPROVED do., for Taps and Dies, Snaps and Punches Tilted, Square, Round, Oval, Oc- tagon, Flat, or Three-square, $\frac{1}{2}$ inch, and above IMPROVED SILVER STEEL, made expressly for Smiths' Cold Chisels, Boiler Makers' Tools, Punches, Cups, Shear Blades, Cutters, &c. DOUBLE SHEAR STEEL, do. SINGLE do. do. do. GERMAN OR TILTED do. COMMON ROLLED do. do. WELDING CAST do. do. SPINDLE CAST do. do. Do. COMMON do. do. SPRING STEEL, for Railway and other Carriages DRIFT BOLT STEEL, Round or Octagon COTTER or KEY STEEL PAPER MILL (COMMON) STEEL PLATES Do. (DOUBLE SHEAR) do. Do. CAST do. In lengths as required. PISTON ROD COMMON STEEL CAST STEEL, for Piston Rods, Side Bars, Mandrills, &c.				WIRE CAST STEEL, No. 4 Iron Wire Gauge Do. COMMON do. do. FILE CAST STEEL, $\frac{1}{2}$ inch and above Do. COMMON do. do. RAZOR CAST STEEL PEN KNIFE do. POCKET do. do. PIN OR BROOCH CAST STEEL, $\frac{1}{2}$ inch and above CAST STEEL, for Boiler Plates.. ROLLED STEEL, for Plough Plates Ditto do. do., cut to pattern CAST STEEL IN SHEETS, for CIRCULAR SAWS MILL SAWS PIT SAWS CROSS CUT SAWS, &c. CAST STEEL IN SHEETS, up to No. 20 I. W. G. Do. do. 20 to 28 do. Do. do. 24 to 26 do. Do. do. 27 & 28 do. Do. do. 29 & 30 do. Note.—If more than 5 feet by 18 ins., extra price is charged.			
SPRINGS.	Good Quality, per cwt.	Very Best Quality, per cwt.		BESSEMER STEEL.	Good Quality, per cwt.	Very Best Quality, per cwt.	
RAILWAY SPRINGS, for Locomotives Do. do. for Carriages, with tension bar Do. do. do. without do. ... Do. do. do. drawn points .. Do. do. do. spear points .. Do. do. do. rolled eye WAGON SPRINGS, plain Do. do. rolled eye Do. do. half-moon end Do. do. turned-up end BUFFER SPRINGS CONICAL SPRINGS —John Brown's Patent VOLUTE SPRINGS BUFFERS complete, as per List, furnished on application				INGOTS RAILS FISH PLATES TIRES, for Locomotives Do. for Carriages and Wagons AXLES, for Locomotives, rough forged, up to 5 cwt. Do. for Carriages and Wagons Do. turned and finished ANGLES PLATES FORGINGS of all descriptions			

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

LIST OF PRICES OF EDGE TOOLS.

In consequence of considerable advances, both in Wages and Materials, it was unanimously resolved, at a General Meeting of Edge Tool Manufacturers, held at the Outlers' Hall, Sheffield, on the 25th June, 1872, that the following List of Prices be adopted by the Trade, from the 1st July, 1872.

LIGHT EDGE TOOLS.

N.B.—Throughout this List French Measures are computed as under.

Inches ..	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3
Lines ..	2	2 $\frac{1}{2}$	3	4	5	6	7	8	9	10	11

Do. : No.
count.

	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3
CAST STEEL FIRMER CHISELS	4/3	4/3	4/3	4/6	4/9	5/3	5/6	6/0	6/6	7/6	8/0
Ditto	4/3	4/3	4/3	4/6	4/9	5/3	5/6	6/0	6/6	7/6	8/0
Ditto Improved	6/9	6/9	6/9	7/0	7/3	7/3	8/0	8/6	9/0	10/0	10/6
Ditto Strong	6/9	6/9	6/9	7/0	7/3	7/3	8/0	8/6	9/0	10/0	10/6

CAST STEEL FIRMER CHISELS.

CAST STEEL Registered Chisels	7/0	7/0	7/3	7/6	8/3	9/3	10/6	13/6	14/3	15/0	16/3	17/6	19/0	21/6	23/0	24/6	26/0	27/3	28/9	30/3
Ditto	7/0	7/0	7/3	7/6	8/3	9/3	10/6	13/6	14/3	15/0	16/3	17/6	19/0	21/6	23/0	24/6	26/0	27/3	28/9	30/3

COMMON FIRMER CHISELS.

Short Firmer Chisels (1 in. to be 5½ in. to Bolster)	4/3	4/3	4/6	5/0	5/3	5/6	6/0	6/3	6/6	7/0	7/3	8/0	8/6	9/0	10/0	10/6	11/0	11/6	12/0	12/6	13/0	13/6	14/0	14/6	15/0	15/6	16/0	16/6	17/0	17/6	18/0	18/6	19/0	19/6	20/0	20/6	21/0	21/6	22/0	22/6	23/0	23/6	24/0	24/6	25/0	25/6	26/0	26/6	27/0	27/6	28/0	28/6	29/0	29/6	30/0	30/6	31/0	31/6	32/0	32/6	33/0	33/6	34/0	34/6	35/0	35/6	36/0	36/6	37/0	37/6	38/0	38/6	39/0	39/6	40/0	40/6	41/0	41/6	42/0	42/6	43/0	43/6	44/0	44/6	45/0	45/6	46/0	46/6	47/0	47/6	48/0	48/6	49/0	49/6	50/0	50/6	51/0	51/6	52/0	52/6	53/0	53/6	54/0	54/6	55/0	55/6	56/0	56/6	57/0	57/6	58/0	58/6	59/0	59/6	60/0	60/6	61/0	61/6	62/0	62/6	63/0	63/6	64/0	64/6	65/0	65/6	66/0	66/6	67/0	67/6	68/0	68/6	69/0	69/6	70/0	70/6	71/0	71/6	72/0	72/6	73/0	73/6	74/0	74/6	75/0	75/6	76/0	76/6	77/0	77/6	78/0	78/6	79/0	79/6	80/0	80/6	81/0	81/6	82/0	82/6	83/0	83/6	84/0	84/6	85/0	85/6	86/0	86/6	87/0	87/6	88/0	88/6	89/0	89/6	90/0	90/6	91/0	91/6	92/0	92/6	93/0	93/6	94/0	94/6	95/0	95/6	96/0	96/6	97/0	97/6	98/0	98/6	99/0	99/6	100/0	100/6	101/0	101/6	102/0	102/6	103/0	103/6	104/0	104/6	105/0	105/6	106/0	106/6	107/0	107/6	108/0	108/6	109/0	109/6	110/0	110/6	111/0	111/6	112/0	112/6	113/0	113/6	114/0	114/6	115/0	115/6	116/0	116/6	117/0	117/6	118/0	118/6	119/0	119/6	120/0	120/6	121/0	121/6	122/0	122/6	123/0	123/6	124/0	124/6	125/0	125/6	126/0	126/6	127/0	127/6	128/0	128/6	129/0	129/6	130/0	130/6	131/0	131/6	132/0	132/6	133/0	133/6	134/0	134/6	135/0	135/6	136/0	136/6	137/0	137/6	138/0	138/6	139/0	139/6	140/0	140/6	141/0	141/6	142/0	142/6	143/0	143/6	144/0	144/6	145/0	145/6	146/0	146/6	147/0	147/6	148/0	148/6	149/0	149/6	150/0	150/6	151/0	151/6	152/0	152/6	153/0	153/6	154/0	154/6	155/0	155/6	156/0	156/6	157/0	157/6	158/0	158/6	159/0	159/6	160/0	160/6	161/0	161/6	162/0	162/6	163/0	163/6	164/0	164/6	165/0	165/6	166/0	166/6	167/0	167/6	168/0	168/6	169/0	169/6	170/0	170/6	171/0	171/6	172/0	172/6	173/0	173/6	174/0	174/6	175/0	175/6	176/0	176/6	177/0	177/6	178/0	178/6	179/0	179/6	180/0	180/6	181/0	181/6	182/0	182/6	183/0	183/6	184/0	184/6	185/0	185/6	186/0	186/6	187/0	187/6	188/0	188/6	189/0	189/6	190/0	190/6	191/0	191/6	192/0	192/6	193/0	193/6	194/0	194/6	195/0	195/6	196/0	196/6	197/0	197/6	198/0	198/6	199/0	199/6	200/0	200/6	201/0	201/6	202/0	202/6	203/0	203/6	204/0	204/6	205/0	205/6	206/0	206/6	207/0	207/6	208/0	208/6	209/0	209/6	210/0	210/6	211/0	211/6	212/0	212/6	213/0	213/6	214/0	214/6	215/0	215/6	216/0	216/6	217/0	217/6	218/0	218/6	219/0	219/6	220/0	220/6	221/0	221/6	222/0	222/6	223/0	223/6	224/0	224/6	225/0	225/6	226/0	226/6	227/0	227/6	228/0	228/6	229/0	229/6	230/0	230/6	231/0	231/6	232/0	232/6	233/0	233/6	234/0	234/6	235/0	235/6	236/0	236/6	237/0	237/6	238/0	238/6	239/0	239/6	240/0	240/6	241/0	241/6	242/0	242/6	243/0	243/6	244/0	244/6	245/0	245/6	246/0	246/6	247/0	247/6	248/0	248/6	249/0	249/6	250/0	250/6	251/0	251/6	252/0	252/6	253/0	253/6	254/0	254/6	255/0	255/6	256/0	256/6	257/0	257/6	258/0	258/6	259/0	259/6	260/0	260/6	261/0	261/6	262/0	262/6	263/0	263/6	264/0	264/6	265/0	265/6	266/0	266/6	267/0	267/6	268/0	268/6	269/0	269/6	270/0	270/6	271/0	271/6	272/0	272/6	273/0	273/6	274/0	274/6	275/0	275/6	276/0	276/6	277/0	277/6	278/0	278/6	279/0	279/6	280/0	280/6	281/0	281/6	282/0	282/6	283/0	283/6	284/0	284/6	285/0	285/6	286/0	286/6	287/0	287/6	288/0	288/6	289/0	289/6	290/0	290/6	291/0	291/6	292/0	292/6	293/0	293/6	294/0	294/6	295/0	295/6	296/0	296/6	297/0	297/6	298/0	298/6	299/0	299/6	300/0	300/6	301/0	301/6	302/0	302/6	303/0	303/6	304/0	304/6	305/0	305/6	306/0	306/6	307/0	307/6	308/0	308/6	309/0	309/6	310/0	310/6	311/0	311/6	312/0	312/6	313/0	313/6	314/0	314/6	315/0	315/6	316/0	316/6	317/0	317/6	318/0	318/6	319/0	319/6	320/0	320/6	321/0	321/6	322/0	322/6	323/0	323/6	324/0	324/6	325/0	325/6	326/0	326/6	327/0	327/6	328/0	328/6	329/0	329/6	330/0	330/6	331/0	331/6	332/0	332/6	333/0	333/6	334/0	334/6	335/0	335/6	336/0	336/6	337/0	337/6	338/0	338/6	339/0	339/6	340/0	340/6	341/0	341/6	342/0	342/6	343/0	343/6	344/0	344/6	345/0	345/6	346/0	346/6	347/0	347/6	348/0	348/6	349/0	349/6	350/0	350/6	351/0	351/6	352/0	352/6	353/0	353/6	354/0	354/6	355/0	355/6	356/0	356/6	357/0	357/6	358/0	358/6	359/0	359/6	360/0	360/6	361/0	361/6	362/0	362/6	363/0	363/6	364/0	364/6	365/0	365/6	366/0	366/6	367/0	367/6	368/0	368/6	369/0	369/6	370/0	370/6	371/0	371/6	372/0	372/6	373/0	373/6	374/0	374/6	375/0	375/6	376/0	376/6	377/0	377/6	378/0	378/6	379/0	379/6	380/0	380/6	381/0	381/6	382/0	382/6	383/0	383/6	384/0	384/6	385/0	385/6	386/0	386/6	387/0	387/6	388/0	388/6	389/0	389/6	390/0	390/6	391/0	391/6	392/0	392/6	393/0	393/6	394/0	394/6	395/0	395/6	396/0	396/6	397/0	397/6	398/0	398/6	399/0	399/6	400/0	400/6	401/0	401/6	402/0	402/6	403/0	403/6	404/0	404/6	405/0	405/6	406/0	406/6	407/0	407/6	408/0	408/6	409/0	409/6	410/0	410/6	411/0	411/6	412/0	412/6	413/0	413/6	414/0	414/6	415/0	415/6	416/0	416/6	417/0	417/6	418/0	418/6	419/0	419/6	420/0	420/6	421/0	421/6	422/0	422/6	423/0	423/6	424/0	424/6	425/0	425/6	426/0	426/6	427/0	427/6	428/0	428/6	429/0	429/6	430/0	430/6	431/0	431/6	432/0	432/6	433/0	433/6	434/0	434/6	435/0	435/6	436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EDWARD BROOKES.*Set of Six C.S. Firmer Chisels.**314. Cast Steel Firmer Chisels.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

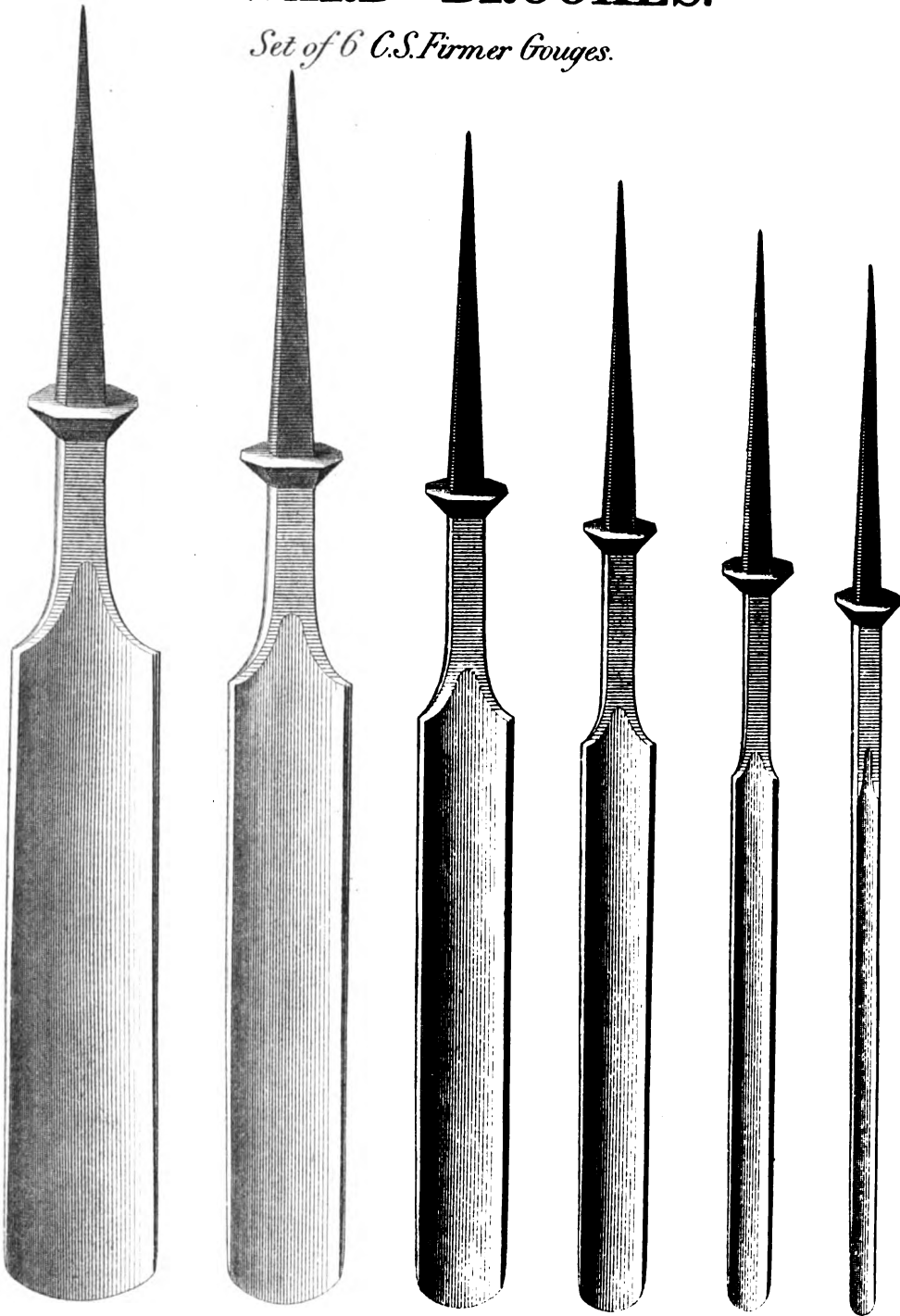
CAST STEEL FIRMER GOUGES.

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EDWARD BROOKES.

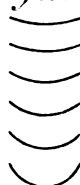
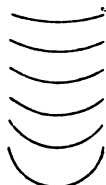
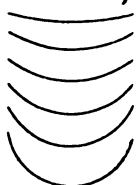
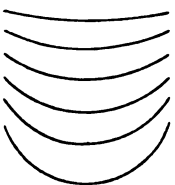
Set of 6 C.S. Firmer Gouges.

317. Cast Steel Firmer Gouges.



Sweeps or Curves of Gouges.

A
B
C
D
E
F



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

LIGHT EDGE TOOLS.—Continued.

No.	Descript.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	in.
320	Cast Steel Coachmakers' Chisels (1 in. to be 8 in. up to Bolster).....	7/3	7/3	7/6	8/0	9/6	10/6	11/9	13/3	15/9	18/0	19/6	21/0	23/3	25/6	32/0 doz.
321	Doitto Gouges	10/3	10/3	10/6	11/0	12/6	13/6	14/9	16/3	19/9	22/0	23/6	25/0	28/3	30/6	37/0 "
322	Doitto Long Thin Paring Chisels (1 in. to 9 in. up to Bolster)	7/6	7/6	7/9	8/6	9/6	10/9	11/6	14/0	16/0	19/0	20/6	23/0	25/0	27/0	33/6 "
323	Doitto Gouges	12/6	12/6	12/9	13/6	14/6	15/6	16/9	19/3	21/3	25/9	28/0	30/6	32/0	33/0	41/6 "
324	Doitto Millwrights' Chisels (1 in. to be 9 in. up to Bolster)	9/0	10/0	11/6	13/6	15/6	17/0	19/6	22/3	25/0	28/3	31/6	35/0	37/6	45/6	"
325	Doitto ditto (1 in. " 10 in. ditto)	10/3	12/6	14/6	16/0	17/6	19/6	22/6	25/0	26/6	29/3	32/0	35/3	38/0	47/6	"
326	Doitto ditto (1 in. " 12 in. ditto)	12/9	14/3	16/6	18/6	20/6	23/0	27/0	29/0	30/6	32/0	36/6	39/9	42/6	52/6	"
327	Doitto ditto (1 in. " 14 in. ditto)	16/6	18/0	20/0	22/0	25/0	27/0	31/6	33/0	34/6	37/0	40/0				"
328	Doitto Millwrights' Gouges	14/0	15/0	19/6	21/0	22/6	24/6	27/6	28/0	31/0	33/0	37/6	43/0	45/6	55/6	"

Cast Steel Coachmakers' and Millwrights' Chisels, with extra strong Bolsters, 4/0 per dozen extra.

CAST STEEL TURNING CHISELS AND GOUGES.

No.	Descript.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	in.
331	Cast Steel Turning Chisels (1 in. to be 10 $\frac{1}{2}$ in. over all)	6/0	6/0	6/6	7/3	8/0	9/0	10/0	11/6	13/0	14/6	16/6	18/6	20/6	22/6	24/6	26/6 doz.
332	Doitto ditto Improved (1 in. " 11 in. ditto)	8/0	8/0	8/6	9/3	10/0	11/0	12/0	13/6	15/0	16/6	18/6	20/6	22/6	24/6	26/6	28/6 doz.
333	Doitto Turning Gouges (1 in. " 10 $\frac{1}{2}$ in. ditto)	7/9	7/9	8/9	9/9	10/6	11/6	12/6	13/6	14/0	15/9	17/6	19/6	20/6	22/6	24/6	26/6 doz.
334	Doitto ditto (1 in. " 11 in. ditto)	9/9	9/9	10/9	11/9	12/6	13/6	14/6	15/9	17/6	19/6	20/6	22/6	24/6	26/6	28/6	30/6 doz.
335	Doitto Long Strong Turning Chisels (1 in. " 18 in. ditto)	10/0	10/0	10/6	11/0	12/0	13/6	14/6	16/6	18/6	19/0	20/6	23/9	27/0	31/3	35/6	40/6
336	Doitto ditto Gouges	15/3	15/3	16/0	16/6	17/6	18/6	19/6	20/6	22/6	23/0	25/0	27/0	28/0	31/0	35/0	41/0
337	Doitto Thick Backs, ditto	15/3	15/3	16/0	16/6	17/6	18/6	19/6	20/6	22/6	23/0	25/0	27/0	28/0	31/0	35/0	41/0
338	Doitto Gunstockers' Chisels same price as Cast Steel Firmer Chisels.	15/3	15/3	16/0	16/6	17/6	18/6	19/6	20/6	22/6	23/0	25/0	27/0	28/0	31/0	35/0	41/0
339	Doitto ditto	10/0	10/0	10/6	11/6	12/6											
340	Doitto ditto																

CAST STEEL TURNING CHISELS AND GOUGES, ASSORTED IN SETS.

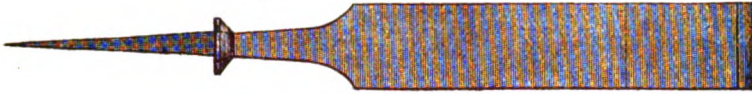
No.	Descript.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	in.
331	Cast Steel Turning Chisels:—	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	in.
	Six to the Set.....	4/3	5/0	5/6	6/0	6/6	7/3	8/0	8/6	9/3	10/0	10/6	11/6	12/6	13/6	14/6	15/6
	Nine to the Set.....	6/3	7/3	7/10	8/9	10/9	11/0	13/6	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6
	Twelve to the Set.....	8/3	10/3	11/0	13/6	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6	24/6	25/6	26/6
333	Cast Steel Turning Gouges:—	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	in.
	Six to Set	5/5	6/3	6/10	7/10	8/9	9/10	10/8	11/8	12/8	13/8	14/8	15/8	16/8	17/8	18/8	19/8
	Nine to the Set	7/5	8/6	9/10	10/10	11/10	12/10	13/10	14/10	15/10	16/10	17/10	18/10	19/10	20/10	21/10	22/10
	Twelve to the Set	9/6	11/0	12/10	13/10	14/10	15/10	16/10	17/10	18/10	19/10	20/10	21/10	22/10	23/10	24/10	25/10

Cast Steel German Shape, Turning Chisels same price as Long Strong Turning Chisels.

V Turning Tools $\frac{1}{8}$ and $\frac{1}{4}$ in. 15/0 per doz.

EDWARD BROOKES.

320, C. S. Coach Makers Chisel.



323, C. S. Long Thin Paring Chisel



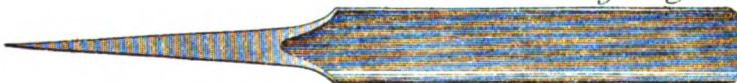
326, C. S. Millwrights Chisel



331, C. S. Turning Chisel



333, C. S. Turning Gouge



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

LIGHT EDGE TOOLS.—Continued.

ROUND SHOULDERED YELLOW PRINT CUTTERS, OR LADIES' CARVING TOOLS.

Chisels, all sizes, to $\frac{1}{2}$ inch	5/3	per doz.	Straight Parting Tools, to $\frac{1}{2}$ inch	7/6	per doz.
Gouges, A to E Sweep, sizes to $\frac{1}{2}$ inch	6/0	"	Bent ditto	8/6	"
Ditto F & G ditto	7/3	"	Spoon Bit or Entering Parting Tools, to $\frac{1}{2}$ inch	8/6	"
Curved or Double Bent Gouges	7/6	"	Ditto Chisels ditto	7/0	"
Back Bent Gouges	7/6	"	Ditto Gouges ditto	7/6	"
Set of P. C. Tools of	12	24	36	48	Handled in Boxwood, Ebony, or Rosewood, 4/ per set extra.
	7/3	14/6	21/9	29/0	per set
Best Mahogany Polished Cases, with sets of	24	36	48	Tools.	
	40/6	57/9	93/0	each.	

Flat Shank Dog Leg Chisels, 3/6 per dozen. Ditto, Round Shanks, 4/6 per dozen. Best Cast Steel Brad Punches, 2/6 per dozen; Common ditto, 1/6 per dozen. Cast Steel London Scrivers, 7/6 per dozen. Cast Steel Striking Knives, 7/6 per dozen. Plasterers' Moulding Tools, assorted, 12/0 per dozen.

UNSHOULDERED PRINT CUTTERS' TOOLS, &c.

Chisels to $\frac{1}{2}$ in., 2/9 per dozen. Gouges, A to E sweep, to $\frac{1}{2}$ in., 3/9 per dozen. Gouges, F and G sweep, to $\frac{1}{2}$ in., 5/0 per dozen. Print Cutters' Blades, 3/6 per dozen.

ENGRAVERS' TOOLS.

Square and Lozenge Gravers, 24/0 per gross; ditto, Round Back, 36/0 per gross. Scorpers, 24/0 per gross. Spit Stickers, 30/0 per gross. Knife Gravers, 30/0 per gross.

CAST STEEL OVAL BURNISHERS, finely polished.	8	3½	4	4½	5	6	7	8	9	inches.
Cast Steel Double Burnishers, 16/ per dozen.	8/0	8/0	9/0	11/0	11/0	13/0	16/0	18/0	21/0	per doz.

SOCKET CHISELS AND GOUGES.

Dis- count.	No.	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	1 $\frac{7}{8}$	2	inches.			
	364	German Steel Socket Chisels	9/9	10/9	11/6	12/0	13/0	14/3	15/6	16/6	17/6	18/9	20/0	21/3	22/9	per doz.
	365	Ditto ditto Gouges	11/3	12/3	13/0	13/6	14/6	16/9	18/0	19/0	20/0	22/0	23/0	25/3	27/0	"
	366	Ditto Staking Chisels	13/9	15/3	16/3	17/9	18/9	20/6	22/3	23/0	25/3	27/3	29/9	32/9	36/3	"
	368	Blockmakers' Chisels, 16 inches long	18/0	20/0	22/9	24/0	26/0	29/0	32/0	35/0	38/0	42/0	46/0	50/0	54/0	"
	369	Ditto Gouges, ditto	24/0	26/0	28/0	30/0	32/0	35/0	38/0	41/0	44/0	48/0	52/0	56/0	60/0	"

CAST STEEL SOCKET CHISELS AND GOUGES.

		3	4	5	6	7	8	9	10	11	12	13	14	15	16	per doz.
370	Cast Steel Socket Chisels.....	12/3	13/0	14/0	15/0	16/6	18/3	20/0	21/3	22/9	24/6	26/6	28/6	30/6	31/6	
370A	Ditto Strong American Pattern, Socket Chisels....	13/6	14/3	15/6	16/6	18/0	20/0	22/0	23/6	25/0	27/0	29/3	31/6	33/6	34/6	
371	Ditto Socket Gouges.....	15/3	16/0	17/0	18/0	20/0	22/3	24/0	25/3	26/9	30/6	32/6	34/6	36/6	37/6	
372	Bright Cast Steel Socket Chisels, and Sash ditto	14/3	15/0	16/0	17/0	18/6	20/3	22/0	23/3	24/9	27/6	29/6	31/6	33/6	34/6	
373	Ditto ditto Gouges	18/9	19/6	20/6	21/6	23/0	24/9	26/6	27/9	29/3	34/0	36/0	38/0	40/0	41/0	

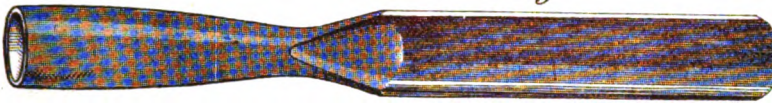
All Socket Gouges out-stepped, 2/ per dozen extra. For Socket Chisels, in Sets, see following page.

EDWARD BROOKES.

372, Bright or Blued C.S. Socket Chisel.



373, Bright or Blued C.S. Socket Gouge.



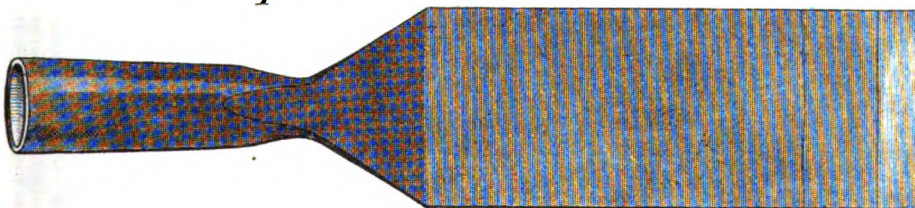
358 C.S. Socket Mortice Chisel.



367, C.S. Stalking Chisel



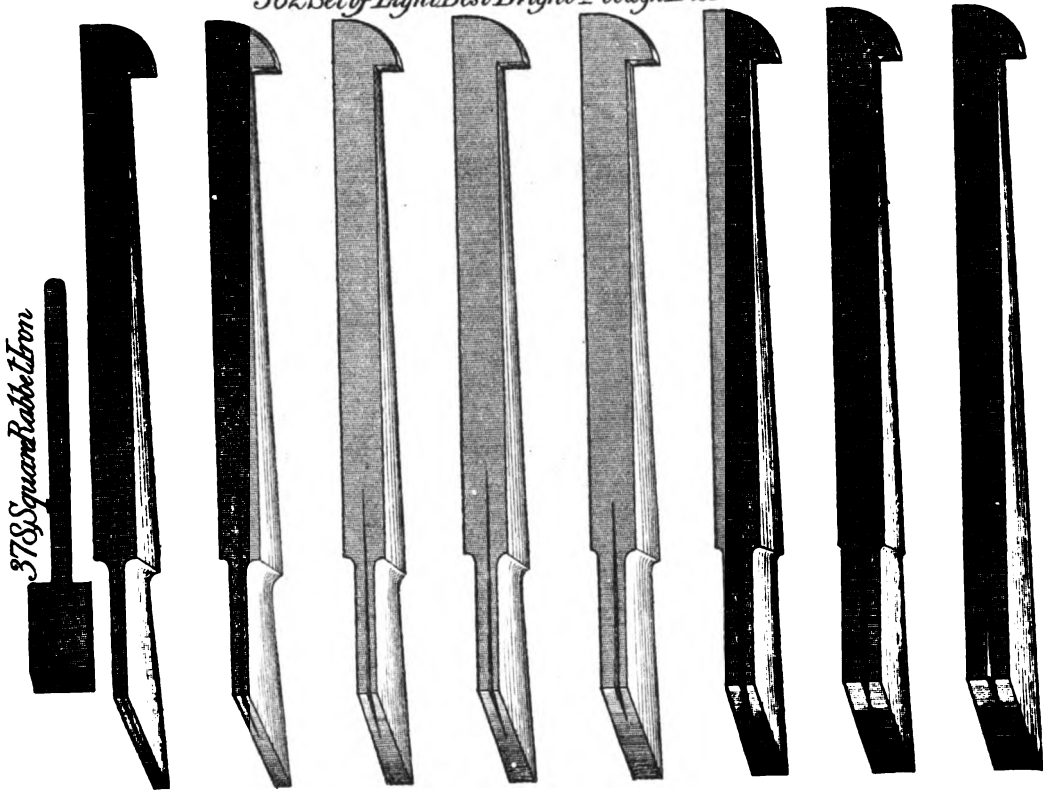
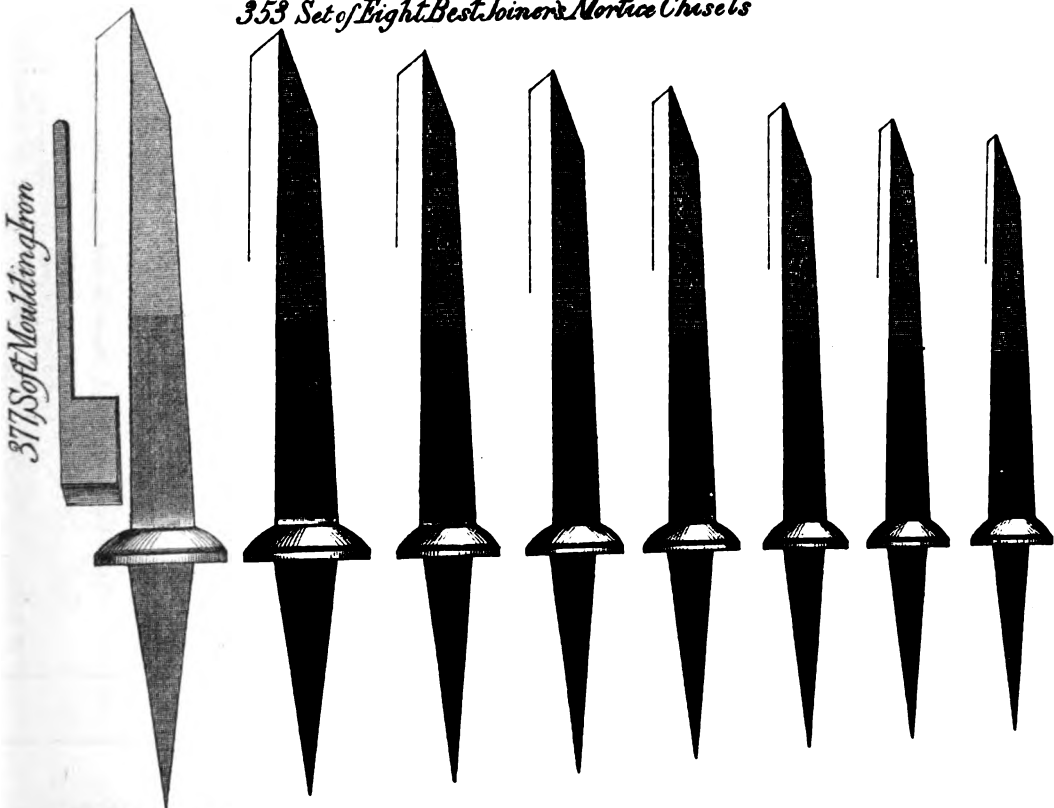
375, Best Ship Slice



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

LIGHT EDGE TOOLS.—Continued.

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EDWARD BROOKES.*362 Set of Eight Best Bright Plough Bits**353 Set of Eight Best Joiners Mortice Chisels***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

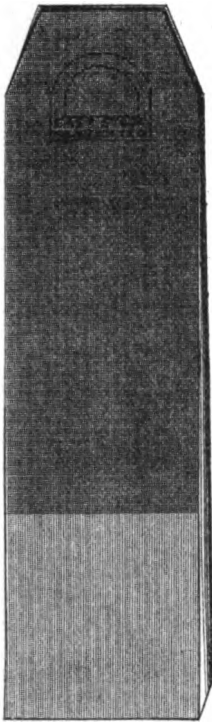
THE ILLUSTRATED SHEFFIELD LIST.

LIGHT EDGE TOOLS.—Continued.

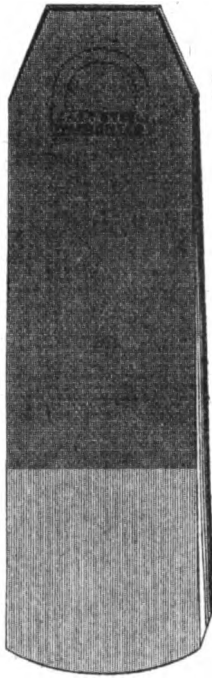
No.	Dis- count.	CAST STEEL SPOKESHAVE IRONS.											
		To	1½	1½	1½	1½	2	2½	3	3½	4	4½	5
380		Common Plane Irons	5/11	6/0	6/8	7/0	8/0	8/6	9/9	11/0	11/6	12/9	14/0
381		Ditto Cut Plane Irons	6/1	6/5	7/2	7/6	8/6	9/0	10/3	11/6	12/0	13/3	14/6
382		Ditto Double ditto with Solid Nuts	13/10	14/2	14/3	15/0	15/3	16/9	17/6	19/3	21/3	22/6	24/3
383		Ditto Tooth ditto	7/9	8/3	8/6	9/0	9/6	10/0	10/6	11/6	12/6	13/6	15/0
384		Ditto Top ditto with Screws	4/9	4/9	4/9	4/9	5/0	5/3	5/6	6/0	6/9	7/6	8/0
		Common Double Irons, fitted with Common Tops, 1/8 per dozen less; ditto, if Glazed Tops, 9d per dozen extra. Skew Plane Irons, 1/0 per dozen extra to Plane.											
		Skew Double 2/6 per dozen extra to Double. All Irons above 3 inches same as Coopers' Jointers.											
		Hollow Nose Double Plane Irons, 5/0 per dozen extra. Long Screw German Pattern Double Irons, 7/8 per dozen extra.											
CAST STEEL PLANE IRONS.													
		To	1½	1½	1½	1½	2	2½	3	3½	4	4½	5
385		Cast Steel Plane Irons	8/0	8/0	8/0	8/0	9/6	10/0	11/6	12/9	13/6	15/3	17/0
386		Ditto Cut Plane Irons	8/6	8/6	8/6	8/9	9/6	10/0	10/6	12/0	13/3	14/0	15/9
389		Ditto Double do.	16/3	16/3	16/3	16/9	17/9	18/6	19/3	21/3	23/3	24/9	27/0
390		Ditto Tooth do.	12/0	12/0	12/0	12/0	13/0	14/0	15/0	16/3	17/0	18/3	
392		Solid or Nutted Top Plane Irons, with Screws	6/3	6/3	6/3	6/3	6/6	6/9	7/0	7/6	8/3	9/0	9/6
		Cast Steel Skew Plane Irons, 1/0 per dozen extra to Cast Steel Plane. Skew Double, 2/6 per dozen extra. Hollow Nose Plane Irons, 2/0 per dozen extra. Hollow Nose Double Plane Irons, 2/0 per dozen extra. Cast Steel Parallel Plane Irons, to 8 Wire Gauge, 2/6; to 7 Wire Gauge, 3/0 per dozen extra to Cast Steel Plane Irons. Cast Steel Mitre Irons, 1/0; ditto, with Nuts, 3/0 per dozen extra to Cast Steel Plane Irons. All Irons above 3 inches same as Coopers' Jointers.											
COOPERS' JOINTER IRONS.													
		3	3½	3½	3½	3½	4	4½	5	5½	6	6½	7
German Steel Coopers' Jointer Plane Irons, 10 in. long		24/0	25/0	26/0	27/6	29/0	30/6	32/0	34/0	36/0	38/0	39/6	42/0
Ditto ditto	11	25/0	26/0	27/0	29/6	31/6	34/0	36/0	37/6	38/6	40/6	42/0	46/0
Ditto ditto	12	27/0	28/0	29/0	31/6	34/0	37/0	40/0	42/0	43/6	46/0	48/0	54/0
Cast Steel ditto	10	28/0	29/0	30/0	31/6	33/6	36/0	38/0	40/0	41/6	43/6	46/0	50/0
Ditto ditto	11	29/0	30/0	31/0	33/6	35/6	38/0	40/0	41/6	43/6	45/6	47/0	51/0
Ditto ditto	12	31/0	32/0	33/0	35/6	38/0	41/0	44/0	46/0	48/6	50/0	53/0	59/0
German Steel Double ditto	10	49/0	50/0	52/0	55/0	58/0	61/0	64/0	68/0	72/0	76/0	79/0	86/0
Ditto ditto	11	50/0	52/0	54/0	57/0	60/0	63/0	68/0	72/0	75/0	79/0	81/0	84/0
Ditto ditto	12	52/0	54/0	56/0	61/6	65/6	71/0	76/0	79/6	84/0	86/6	90/0	100/0
Cast Steel Double ditto	10	53/0	55/0	57/0	60/0	63/0	66/0	69/0	73/0	78/0	82/0	85/0	92/0
Ditto ditto	11	55/0	57/0	59/0	64/0	68/0	72/0	77/0	80/0	83/0	87/0	90/0	98/0
Ditto ditto	12	57/0	59/0	61/0	65/6	70/6	76/0	81/0	84/6	90/0	92/6	96/0	106/0
		All Coopers' Single Jointer Irons, if Cut, 2/0 per dozen extra; if Double, with Solid Nuts, 3/6 per dozen above double price of the Cut Irons.											
G. S. Coopers' Spanish Sneak Jointer Plane Irons, 21 inches long													
		3	3½	3½	3½	4	4½	5	5½	6	6½	7	7½
Cast Steel Coopers' Whittles		5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6
Ditto Strong ditto		6/0	6/0	6/0	6/0	6/0	6/0	6/0	6/0	6/0	6/0	6/0	6/0
Common ditto		4/0	4/0	4/0	4/0	4/0	4/0	4/0	4/0	4/0	4/0	4/0	4/0

EDWARD BROOKES.

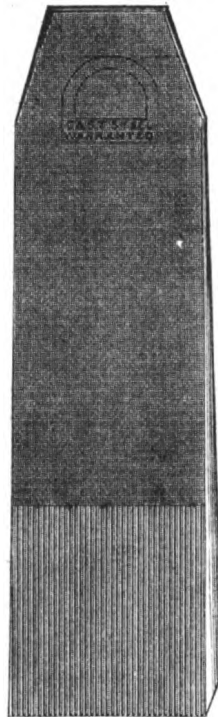
385, Cast Steel Plane Iron.



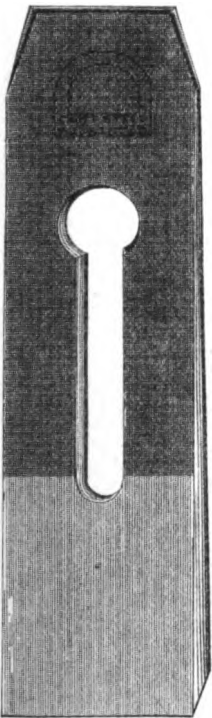
387, Cast Steel Round Nose Plane Iron.



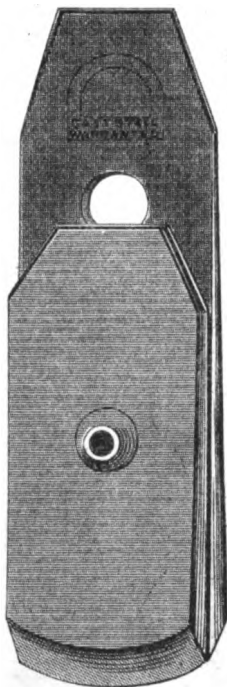
389, Cast Steel Tooth Plane Iron



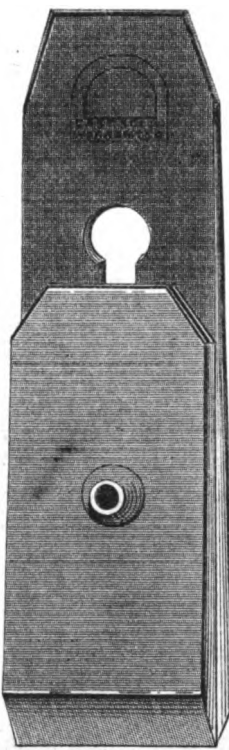
386, Cast Steel Cut Iron.



391, Cast Steel Round Nose Double Iron.



390, Cast Steel Double Iron.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

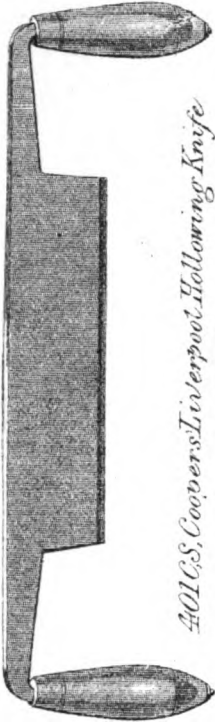
THE ILLUSTRATED SHEFFIELD LIST.

LIGHT EDGE TOOLS.—Continued.

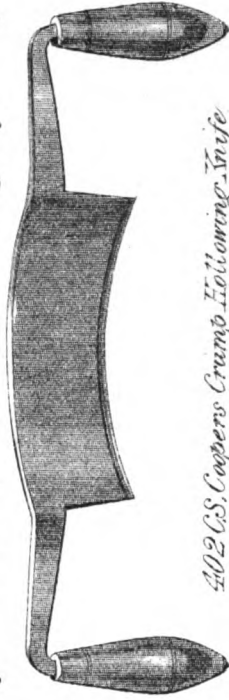
DRAWING KNIVES.	
No.	
392A	Carpenters' Drawing Knives, not Handled
398	Ditto ditto Handled.....
398A	Ditto ditto without Handles
394	C. S. Carpenters' ditto with Handles, Brass Caps, and Ferrules
396	Cast Steel Kent and Narrow Wheelers, Handled
398	Coopers' Drawing Knives, 1½ in. wide, Handled.....
399	Ditto Heading Knives, 2 in. wide, ditto
400	Cast Steel Strong Liverpool Drawing Knives.....
401	Ditto ditto Hollowing Knives
402	Ditto ditto Crump ditto
402A	Common Hollowing Knives, not Handled
402B	Ditto ditto Handled
402C	Cast Steel ditto not Handled
402D	Ditto ditto Handled
403	Coopers' Broad Hollowing Knives, London Pattern.....
403A	Ditto ditto Liverpool Pattern.....
403B	Ditto Hollowing ditto German Pattern
405	Mast Shaves, 2½ inches wide.....
Coopers' Jigger Knives, London Pattern, 2½ inches, 32/0; 3 inches, 32/0; 3 inches, 34/0 per doz. German Pattern Drawing Knives, 8d. per doz. extra to Carpenters' Drawing Knives. One and Two Handled Round Shaves, 18/6 per doz. One Iron Handled ditto, 80/0 per doz.	
404	Gentlemen's Box Handled Drawing Knives, Cast Steel.....
4 4½ 5 5½ 6 6½ 7 inches.	
20/0 22/0 24/0 26/0 28/0 30/0 32/0 per dozen.	

EDWARD BROOKES.

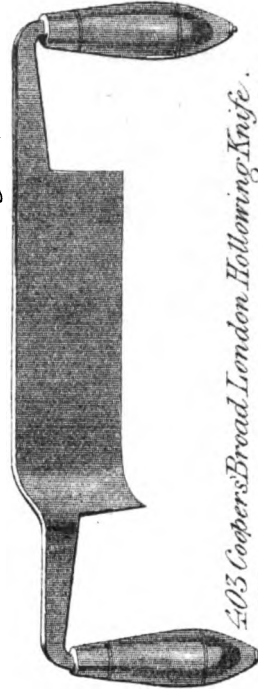
400 C.S. Strong Liverpool Drawing Knife.



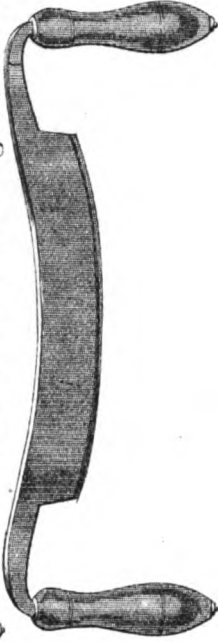
401 C.S. Coopers Liverpool Hollowing Knife.



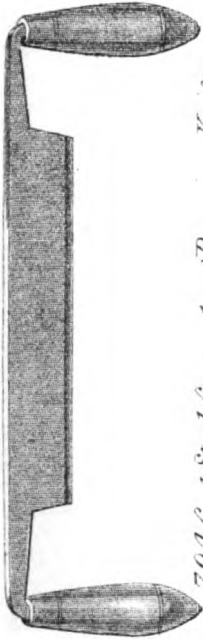
402 C.S. Coopers Crumpled Hollowing Knife.



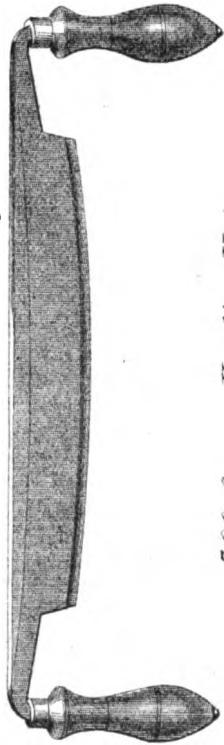
403 Coopers Broad London Hollowing Knife.



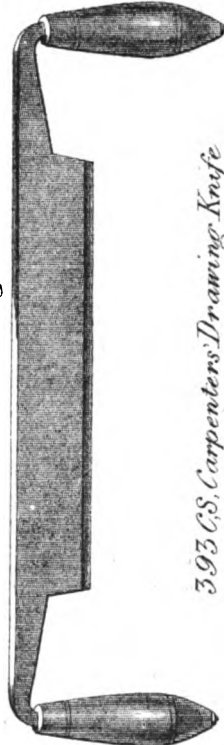
398 Coopers Drawing Knife.



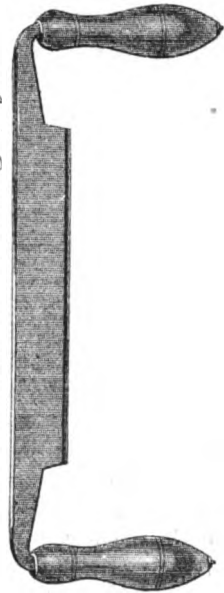
394 Cast Steel Carpenters Drawing Knife.



399 Coopers Heading Knife.



395 C.S. Carpenters Drawing Knife.



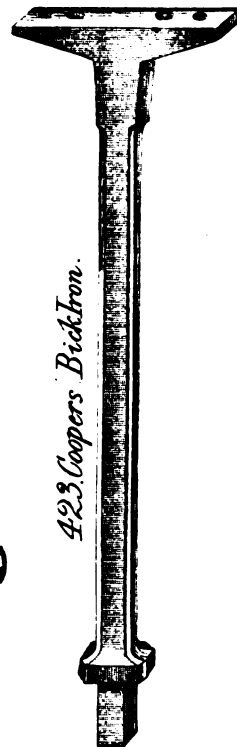
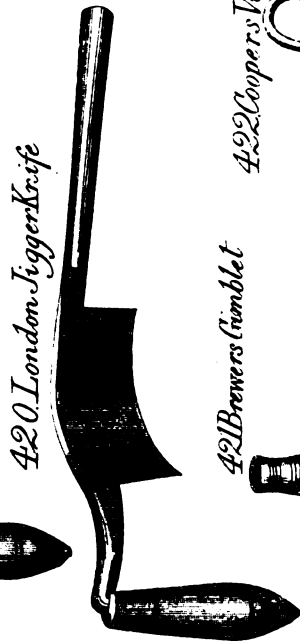
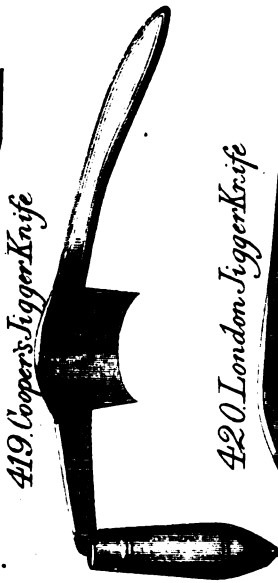
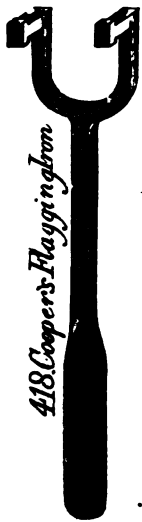
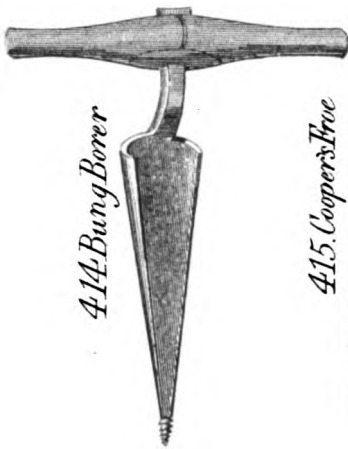
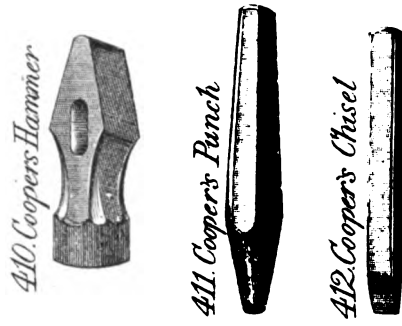
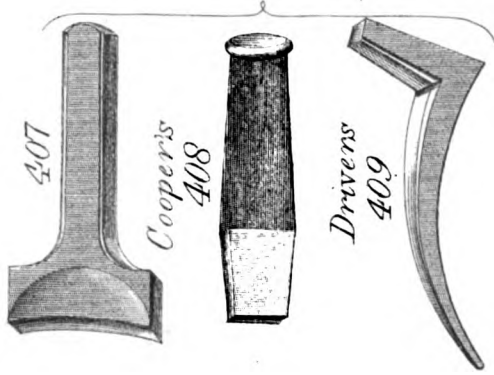
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.

Dis- count.	No.	
		COOPERS' TOOLS.
	407	Coopers' Straight Drivers, 14/0 per dozen.
	408	Ditto Stocked ditto 22/0 ..
	409	Ditto Bent ditto 15/0 .. If with Steel Heads, large size, 20/0 per dozen.
	410	Ditto Hammers, 10d. per lb.
	411	Ditto Punches, 9/0 per dozen.
	412	Ditto Chisels, 9/0 ..
		To $\frac{3}{4}$ $\frac{7}{8}$ 1 $1\frac{1}{8}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{7}{8}$ $2\frac{1}{4}$ 2 inches.
	413	Warranted all Steel Tap Borers... 9/6 9/6 9/6 11/9 14/0 16/6 18/9 26/0 35/6 per dozen.
	413A	Ditto Handled ditto .. 11/3 11/3 11/3 14/0 16/6 19/0 21/9 30/6 41/6 ..
		2 $2\frac{1}{2}$ $2\frac{3}{4}$ 3 $3\frac{1}{2}$ 4 inches.
	414	Warranted all Steel Bung Borers 49/3 54/0 58/9 63/6 84/6 117/6 162/0 per dozen.
	414A	Ditto ditto Handled.. 55/3 61/0 65/9 71/9 92/9 127/0 171/6 ..
	415	Coopers' Froes, 1/0 per lb.
	416	Ditto One-Hand Round Shave, 16/3 per dozen.
	417	Ditto Two-Hand ditto 16/3 ..
	417A	Ditto Iron-Handled ditto 30/0 ..
	418	Ditto Flagging Irons, 20 inches, 20/0; 22 inches, 22/0; 24 inches, 24/0 per dozen.
	419	Ditto Jigger Knives, $2\frac{1}{2}$ inches, 32/0; 3 inches, 34/0 per dozen.
	420	Ditto ditto London Pattern, 36/0 per dozen.
	421	Brewers' Gimlets, 7/3 per dozen.
	422	Coopers' Vices, 13/0 ..
	422A	Ditto Common, 9/0 ..
	423	Coopers' Bick Iron, 10d. per lb.
		10 11 12 inches.
	524	G. S. Coopers' Axes..... 44/0 47/0 50/6 per dozen.
	525	Cast Steel ditto 48/9 51/9 55/3 ..
		No. 1 2 3 4
	544	Coopers' Nail Adzes..... 28/3 30/6 32/3 36/0 per dozen.
	545	Ditto ditto, Cast Steel 36/6 39/6 41/9 44/9 ..
	546	Ditto Sharp Adzes 28/3 30/6 32/3 36/0 ..
	547	Ditto ditto, Cast Steel..... 36/6 39/6 41/9 44/9 ..
	548	Ditto Nail Adzes, Sexagon Eyes 47/0 49/6 53/0 55/3 ..
	549	Ditto Sharp Adzes ditto 47/0 49/6 53/0 55/3 ..
	549A	Coopers' Adzes, Solid Square Head 50/0 52/6 55/0 ..
	550	Ditto Howels 23/6 26/0 28/3 ..
	550A	Spanish Coopers' Howels..... 48/0 50/6 53/0 ..
	550B	Egyptian ditto 32/0 34/6 37/0 ..
	550C	Cast Steel Coopers' Hatchets 28/0 30/0 32/0 35/0 ..
	550D	Ditto ditto Blued 36/0 38/0 40/0 43/0 ..
	550E	Cast Steel Spanish Coopers' Broad Side Axe, 15 inches long, by 10 inches deep, 66/0 each.
	550F	Ditto ditto Side Axe, Bright, 30/0 each.
	550G	Ditto ditto Dressing Axe, ditto 21/0 ..
	550H	Ditto ditto ditto ditto 21/0 ..
	550I	Ditto ditto Bowl Axe, 10 inches deep, 8 inches cut, 10/0 each.
	550K	Spanish Coopers' Bowl Adzes, No. 0, 38/0; 1, 42/0; 2, 46/0; 3, 50/0 per dozen.
	550M	Ditto Hollow ditto 58/0; per dozen.
	550N	Cast Steel Spanish Socket Side Axes, 9 inches cut, 5 inches deep, 70/0 per dozen.
	550P	Ditto Spanish Coopers' Froes, 10 inches cut, $4\frac{1}{2}$ inches deep, 60/0 ..
	550R	Ditto ditto Jointer Irons, 16 inches long by $2\frac{1}{2}$ $2\frac{3}{4}$ 3 $3\frac{1}{2}$ $3\frac{3}{4}$ inches deep. 36/0 39/0 42/0 45/0 48/0 per dozen.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

TROWELS.															
	8	8½	9	9½	10	10½	11	11½	12	12½	13	14	inches.		
438	Cast Steel London Brick Trowels.....	..	..	26/0	27/0	28/0	29/6	30/6	31/9	32/9	35/3	37/6	41/0	per dozen.
439	Common Brick Trowels .....	..	..	14/0	14/6	15/0	16/0	16/6	18/0	19/0	..	..	..	..
440	Ditto Glazed ditto .....	..	..	15/0	15/6	16/0	17/0	17/6	19/0	20/0	..	..	..	..
441	Cast Steel Masons' Trowels	27/6	28/0	28/6	29/6	30/6	32/0	33/0	..	..	..	..	..	..
442	Common ditto	12/0	13/0	14/0	14/6	15/0	15/6	16/0	17/0	18/0	..	..	..	..
Extra Strong Through-tang Trowels, with Iron Cap, 7/0 per dozen extra.															
	5	5½	6	6½	7	7½	8	8½	9	inches.					
443	Common Edinburgh Trowels .....	..	..	..	..	13/0	14/0	15/0	16/0	..	per dozen.			
444	Cast Steel ditto Trowels .....	..	..	..	..	26/6	27/0	27/6	29/6	30/6	..			
445	Ditto, Double Ferruled .....	..	..	..	..	33/6	34/0	34/6	35/6	37/6	..			
446	Cast Steel Pointing Trowels	16/0	16/0	16/0	17/0	18/0	20/0	20/0	22/0	..	..		
447	Ditto Guaging ditto .....	..	..	20/0	20/6	21/0	22/6	23/9	..	..	..	
448	Cast Steel Plastering Trowels.....	10	10½	11	inches.										
and		28/0	29/6	31/0	per dozen.										

Cast Steel Plasterers' Moulding Tools, assorted, 9/6 per dozen. Ditto, London Pattern, 14/6 per dozen.

American, with Peak in front, 6/0 per dozen extra.

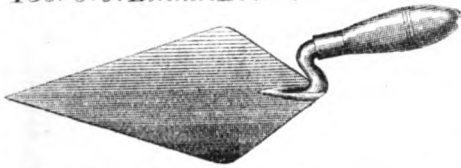
AUGERS, BRUZZES, &c.

	8	8	8	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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Augers, extra lengths to those in the List:—To 8, 2d.; 9, 3d.; 10, 4d.; 11, 5d.; 12, 6d.; 13, 7d.; 14, 8d. per inch longer.

EDWARD BROOKES.

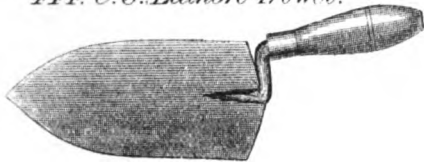
428. C. S. London Brick Trowel.



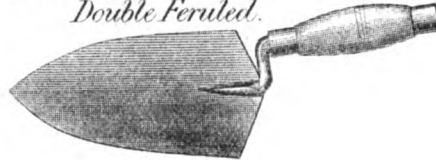
446. C. S. Pointing Trowel.



444. C. S. Edinbro' Trowel.

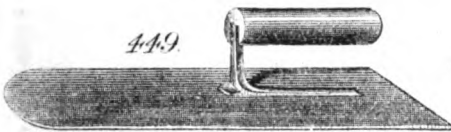


*445. C. S. Edinbro' Trowel.
Double Feruled.*

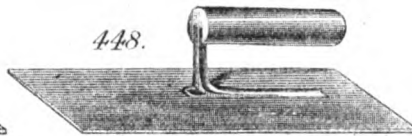


C. S. Plasterers Trowels.

449.



448.



424. Carpenter's Auger.



426. Dod's Pattern Ship Auger.



427. Ship Auger.



435. Bright Screw Bit.



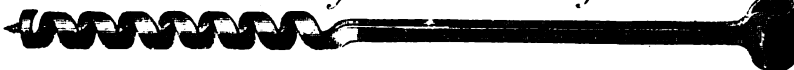
429. Black Screw Auger.



430. Black Screw Auger with Eye.



434. Bright American Auger.



*433. Improved Bright Scotch Screw Auger.
Thin Edges*



432. Bright Scotch Screw Auger with Eye.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count	No.	GEDGE'S PATTERN AUGER AND BITS.															
		1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2
435a	Gedge's Pattern Railway Carriage Bits, 1in., 10in. barrel	35/6	36/0	39/0	40/6	41/6	43/0	45/0	47/0	49/0	52/0	54/6	59/0	61/6	65/6	76/6	78/0
435c	Gedge's Pattern Screw Bits, 1in., 8in. long	20/0	20/0	20/0	22/0	24/0	26/0	28/0	29/0	30/6	32/6	35/0	37/0	41/0	44/0	49/0	54/0
435d	Gedge's Pattern Dowell Bits, 5/8 in. and 4in long	20/0	20/0	20/0	22/0	24/0	26/0	28/0	29/0	30/6	32/6	35/0	37/0	41/0	44/0	49/0	54/0
435e	Gedge's Pattern Tang Augers, 1in. with 6in. twist or screw	24/0	24/0	24/0	28/0	32/6	34/6	39/0	42/0	45/0	47/6	50/0	54/0	58/0	72/0	90/0	117/0
435f	Gedge's Pattern Eyed Augers, 12 in. shank 1in., 6in. screw or twist ..	31/6	31/6	31/6	35/6	41/6	43/6	48/6	49/0	52/6	56/6	61/6	65/0	69/0	73/6	90/0	104/0
435g	Gedge's Pattern Soot-holes Augers, 1in., 8in. screw or twist, 17in. shank, barrel eyed, full length up to eye, 26in.	37/0	37/0	37/0	41/6	49/6	49/6	54/6	54/6	63/0	67/0	67/0	77/6	83/6	92/6	108/0	124/0
BRIGHT AND BLACK WAGON AND CARRIAGE AUGER BITS.																	
435h	Leadbeater's Pattern Black Wagon Bits, bright edges, 1in., 10 in. barrel or twist	27/6	27/6	27/6	28/0	30/0	31/0	32/6	33/6	34/6	35/6	37/0	38/6	41/0	43/0	46/6	48/6
435j	Leadbeater's Pattern Wagon Bits, bright all through, 1in., 10in. barrel or twist	32/0	32/6	32/6	33/0	35/0	36/0	37/6	38/6	39/6	41/6	43/0	45/0	48/0	50/0	54/6	56/6
435k	Black Wagon Bits, Gedge's Pattern nose, bright edge, 10in. barrel	30/6	30/6	30/6	32/6	33/6	35/0	36/0	37/0	38/0	40/0	42/0	44/6	47/0	50/0	52/6	56/0
435l	Gedge's Pattern Nose, Bright, Wagon Bits	34/6	34/6	34/6	35/0	37/0	38/0	39/6	40/6	42/0	44/0	46/0	48/0	51/0	53/6	58/0	64/6
435m	Wagon Builders' Plate Bits	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
435n	Jenning's Pattern Screw Bits	23/0	25/0	29/0	32/0	36/0	40/0	44/0	49/0	54/0	70/0	90/0	per dozen.				
435p	Jenning's Pattern Dowell Screw Bits	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
435q	Bright Single Twist Screw Bits, 1in., 8in. long	21/0	21/0	21/0	21/0	21/0	21/0	22/0	24/0	26/6	29/0	34/0	38/0	40/0	42/0	45/0	48/0
435r	Gedge's Pattern Nose Single Twist Screw Bits, 1in., 8in. long	20/0	20/0	20/0	20/0	20/0	22/0	24/0	26/6	29/0	34/0	38/0	40/0	42/0	45/0	48/0	53/0
SINGLE TWIST SCREW BITS.																	
All One-sixteenths not specified in the List charged as size above.																	
* Augers above length named in List per 1 in. extra.																	

EDWARD BROOKES.

435 K. *Wagon Bits, Black, Gedg'e's Pattern Nose.*



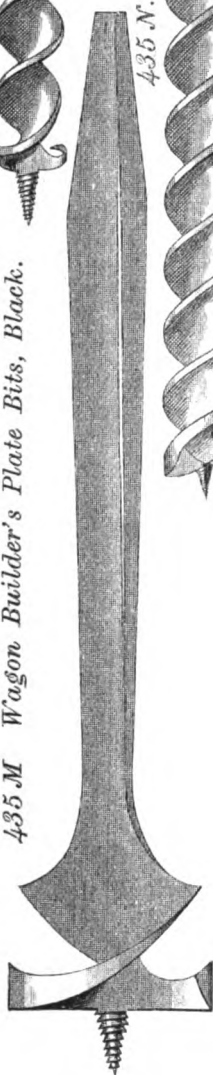
435 H. *Leadbeater's Pattern, Black Solid Cast Steel Wagon Bits*



435 D. *Gedg'e's Pattern, Dowelling Bits, Bright.*



435 M. *Wagon Builder's Plate Bits, Black.*



435 N. *Jennings' Pattern, Screw Bits, Bright.*



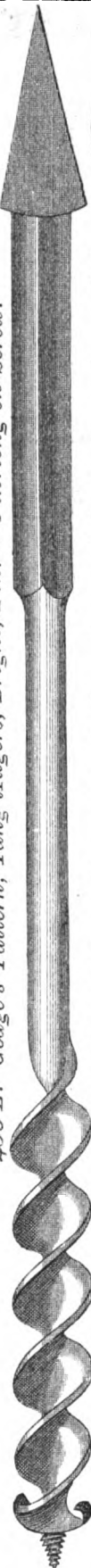
435 B. *Gedg'e's Pattern, Railway Carriage Bits, Bright, 1 in. x 10 in. long on Screw.*



435 C. *Gedg'e's Pattern, Screw Bits, Bright, 1/2 in x 8 in. long on Screw.*



435 E. *Gedg'e's Pattern, Tang Augers, Bright, 1 in. x 6 in. long on Screw.*



435 G. *Gedg'e's Pattern, Scotch Augers, Bright, 1 in. x 8 in. long on Screw, whole length up to eye, 25 in.*



435 F. *Gedg'e's Pattern, Auger, with Eye, Bright, 1 in. x 6 in. long on Screw, 12 in. Shank.*

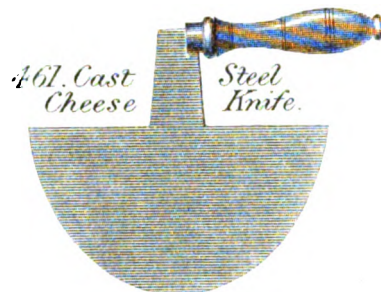
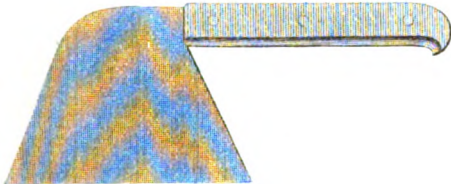
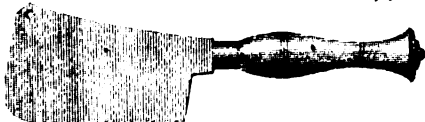
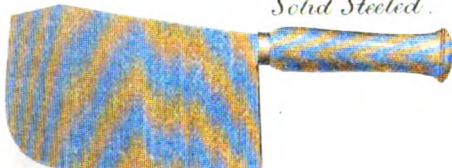


THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	MINCING AND CHEESE KNIVES.										inches.					
												6	6½	7	7½	8	per dozen.
	450	G. S. Mincing Knives, Square ..	..	..	..	..	..	..	..	..	..	13/0	14/0	15/0	..	..	..
	451	Ditto ditto Half-round ..	..	..	..	..	..	..	..	..	..	13/0	14/0	15/0	..	..	..
	452	Cast Steel Mincing Knives, Square ..	..	..	..	..	..	..	..	..	..	18/0	19/0	20/0	..	..	..
	453	Ditto ditto Half-round ..	..	..	..	..	..	..	..	..	..	18/0	19/0	20/0	..	..	..
	454	G. S. Improved Mincing Knives ..	..	..	..	..	..	..	..	..	..	17/6	18/6	19/6	..	..	..
	455	Cast Steel ditto ..	..	..	..	..	..	..	..	..	..	21/0	22/0	23/0	..	..	..
	456	G. S. Double-tang Mincing Knives.	..	..	..	..	..	..	..	..	..	17/0	18/6	20/0	21/0	22/0	..
	457	Cast Steel ditto ..	..	..	..	..	..	..	..	..	..	22/0	24/0	26/0	28/0	30/0	..
	458	Ditto Improved ditto ..	..	..	..	..	..	..	..	..	..	28/0	30/0	32/0	34/0	36/0	..
	459	Ditto French ditto ..	..	..	..	..	..	..	..	..	..	..	..	40/0	42/6	45/0	..
	460	Cheese Knives ..	..	..	..	..	..	..	..	..	..	24/0	27/0	29/0	32/0	34/0	per dozen.
	461	Improved Cast Steel, Deep, Solid ..	..	..	..	..	..	..	..	..	..	36/0	42/0	48/0	55/0	62/0	84/0
CHOPPERS.																	
	462	Bright Wood Handle Chopper ..	..	..	..	..	..	..	..	..	..	28/6	26/0	28/3	33/0	40/0	44/9 dozen.
	463	Round Nose ditto ..	..	..	..	..	..	..	..	..	..	27/0	29/6	31/9	36/6	43/6	48/3
	464	Smithfield Butchers' Choppers, Solid Steeled ..	..	..	..	..	..	..	..	..	..	37/6	40/0	42/6	46/0	..	..
	465	Sugar Choppers ..	..	..	..	..	..	..	..	..	..	17/0	18/9	20/6	21/9	..	..
	466	Beef Steak Beaters, 83/0 per dozen.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	467	Ditto ditto Scale Tang, 47/0 per dozen.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	468	Bright Iron Handled Butchers' Cleavers, to 8½ lbs., 1/3 per lb., above, 1/0 per lb.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	469	Ditto Scale Tang, ditto ..	..	..	..	..	..	..	..	..	..	1/6	..	..	1/4	..	..

EDWARD BROOKES,

453
C. S. Mincing Knife.455.
C. S. Improved Mincing Knife.452
C. S. Mincing Knife.458.
*C. S. Improved
Double Tong Mincing Knife.*457.
*C. S. Double Tong Mincing Knife.*459. *C. S. French Mincing Knife.*461. *Cast
Cheese**Steel
Knife.*463. *London Pattern Meat Chopper.*462. *Bright Meat Chopper.*464. *Smithfield Chopper.
Solid Steeled.*466. *Steak Beater.*468. *Iron Handle Butchers Cleaver.*465. *Sugar Chopper.*

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	HATCHETS.								
		No. 0	1	2	3	4	5	6		
	470	Common Helved Hatchets .....	..	12/6	13/6	15/0	17/0	..	..	dozen.
	471	Ditto Polled ditto .....	..	15/9	17/0	18/6	21/0	..	..	"
	472	Black Helved Hatchets	14/9	15/3	16/6	18/3	20/6	23/0	26/0	..
	473	Bright ditto	18/9	19/6	20/6	22/6	27/0	29/6	32/3	..
	474	Best Kent Bright Polled ditto, Handled	21/3	21/9	23/0	24/9	30/6	33/0	35/3	..
	475	Common Shingling Hatchets, ditto .....	..	18/0	19/0	21/0	23/0	..	..	"
	476	Best ditto ditto .....	..	28/3	30/6	33/0	35/3	..	..	"
	477	Ditto ditto ditto Strong Improved ..	35/3	40/6	46/0	50/6	..	..	..	"
Shingling Hatchets. Chequered Face. 1/9 per dozen extra.										

Shingling Hatchets, Chequered Face, 1/9 per dozen extra.

AXES.

478	Newcastle Ship Axe, 9½d. per lb.
479	Ditto ditto Steel Polled, 11d. per lb.
479A	Best ditto ditto 1s. ..
480	Blocking Axe, 11d. per lb.
481	Ditto ditto Steel Polled, 1s. per lb.
482	Ship Axe, Round Eye, 11d. per lb.
483	Ship Carpenters' Axe, 11d. ..
484	Ditto ditto Steel Polled, 1s. per lb.
485	Ship Axe, Dod's Pattern, 11d. per lb.
486	Australian Felling Axe, 9½d. per lb.
487	Ditto ditto Steel Polled, 11d. per lb.
487A	Ditto ditto ditto 1s. ..
488	Colonial Felling Axe, 9½d. per lb.
489	Ditto ditto Steel Polled, 11d. per lb.
490	Long Felling Axe, 9½d. per lb.
491	Ditto ditto Steel Polled, 11d. per lb.
492	Best Wheelers' Axe, 1s. 2d. per lb.
493	Best Coachmakers' Axe, 1s. 2d. per lb.
494	Newcastle Axe, above 2 lbs., 9½d. per lb.
494A	Ditto Steel Polled, 11d. ..
495	Best Newcastle Axe, Steel Polled, above 2 lbs., 1s. per lb. ; under 2 lbs., 22s. per dozen.
496	Yorkshire Axe, above 2 lbs., 9½d. per lb.
497	Best Yorkshire Axe, Steel Polled, above 2 lbs., 11d. per lb. ; under 2 lbs., 22s. per dozen.
498	Ditto ditto Electro Boracic Steel, above 2 lbs., 1s. per lb. ; under 2 lbs., 24s. per dozen.
499	Scotch Axe, above 2 lbs., 9½d. per lb.
500	Best Scotch Axe, above 2 lbs., 11d. per lb. ; under 2 lbs., 22s. per dozen.
501	Ditto ditto Electro Boracic Steel, above 2 lbs., 1s. per lb. ; under 2 lbs., 24s. per dozen.
502	Common Black Kent Axe, C, above 3 lbs., 8d. per lb.
503	Black Kent Axe, above 2 lbs., 9½d. per lb.
504	Best Kent Axe, Steel Polled, above 2 lbs., 11d. per lb. ; under 2 lbs., 22s. per dozen.
505	Ditto ditto Electro Boracic Steel, above 2 lbs., 1s. per lb. ; under 2 lbs., 24s. per dozen.
506	Common Black Irish Axe, C, above 3 lbs., 8d. per lb.
507	Black Irish Axe, above 2 lbs., 9½d. per lb.
508	Best Irish ditto above 2 lbs., 11d. per lb. ; under 2 lbs., 22s. per dozen.
509	Ditto ditto Electro Boracic Steel, 1s. per lb. ; under 2 lbs., 24s. per dozen.
510	Black Suffolk Axe, above 2 lbs., 9½d. per lb.
511	Best ditto Steel Polled, above 2 lbs., 11d. per lb. ; under 2 lbs., 22s. per dozen.
512	Ditto ditto Electro Boracic Steel, above 2 lbs., 1s. per lb. ; under 2 lbs., 24s. per dozen.

EDWARD BROOKES.

*Newcastle
Ship Axe.*



Blocking Axe.



*Ship Axe
Round Eye.*



Ship Axe.



Australian Felling Axe.



*Colonial
Felling Axe.*



485.

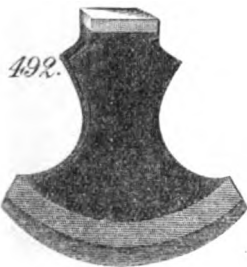
Dod's Ship Axe.



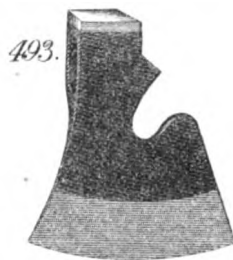
*Long
Felling Axe.*



*Best
Wheeler's Axe.*



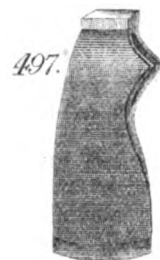
*Best
Coachmaker's Axe.*



*Newcastle
Axe.*



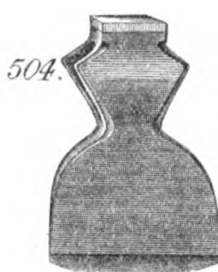
*Yorkshire
Axe.*



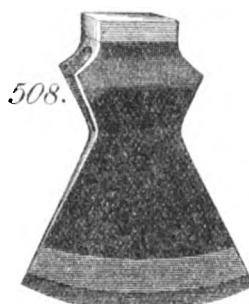
*Scotch
Axe.*



*Kent
Axe.*



*Irish
Axe.*



*Suffolk
Axe.*



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

AXES, LATHING AND SHINGLING HATCHETS.

Dis- count	No.					
	513	French Felling Axe, 9½d. per lb.				
	514	Best ditto 11d. „				
	515	Brazil Axe, 9½d. per lb.				
	516	Best ditto 11d. „				
	517	Pennsylvania Side or Squaring Axe, Electro Boracic Steel, 1.4 per lb.				
	518	Biscay Squaring Axe, 9½d. per lb.				
	519	Best ditto 11d. „				
	520	Kentucky Wedge Axe, Electro Boracic Steel, 3, 3½, 4, 4½, 5, 5½, 6 lbs., 1/6 per lb.				
	521	Canada ditto ditto ditto ditto 1/6 „				
	522	Dutch Side Axe, above 3 lbs., 1/2 per lb.				
	523	Side or Squaring Axe, 1/3 per lb.				
			10	11	12 inches.	
	524	G. S. Coopers' Axe	44/0	47/0	50/6	per dozen.
	525	Cast Steel ditto	48/9	51/9	55/3	„
			No. 1	2	3	4
	526	American Lathing Hatchet	30/0	32/0	34/0	36/0 per dozen.
	527	Canada Hatchet, Blued, Handled	30/0	34/6	39/0	43/0 „
	528	American Shingling Hatchet, with Claw	32/0	34/0	36/0	38/0 „
	529	Ditto ditto	28/0	30/0	32 0	34 0 „
	530	French ditto	20/0	22/0	24/0	26/0 „
	530A	Ditto ditto Blued	24/0	26/0	28/0	30/0 „

EDWARD BROOKES,

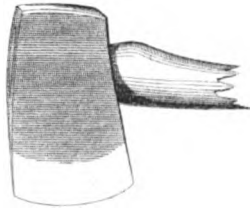
*American
Lathing Hatchet.*

526.



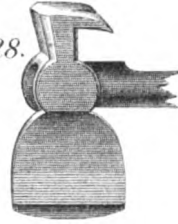
*Canada
Hatchet.*

527.



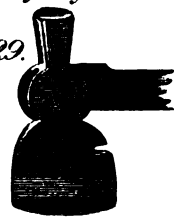
*American
Shingling Hatchet
with Claw.*

528.



*American
Shingling Hatchet.*

529.



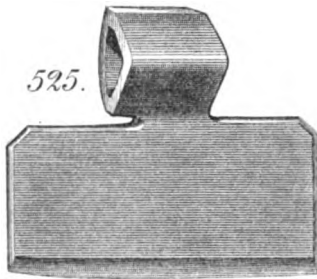
*French
Shingling Hatchet.*

530.



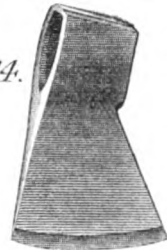
Cooper's Axe.

525.



*French
Felling Axe.*

514.



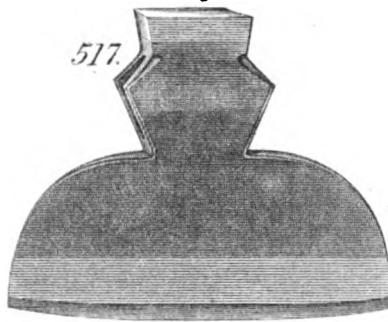
Brazil. Axe.

516.



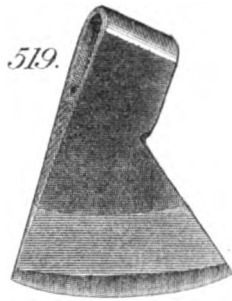
*Pennsylvania Side or
Squaring Axe.*

517.



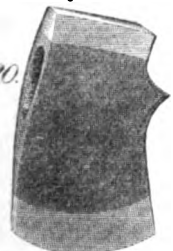
*Biscay
Squaring Axe.*

519.



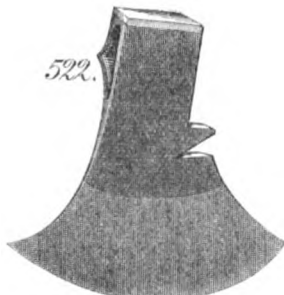
*Kentucky
Wedge. Axe.*

520.



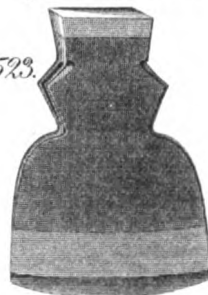
*Dutch
Side. Axe.*

522.



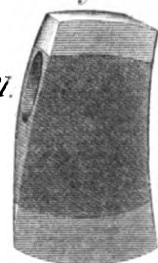
*Side or
Squaring Axe.*

523.



*Canada
Wedge Axe.*

521.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	AXES.									
				3,	3½,	4,	4½,	5,	5½,	6,	6½, 7 lbs.
	516A	Electro Cast Steel Brazil Axe, Labore Media	"	"	"	"	"	"	"	1/8	per lb.
	516B	Ditto Wide Brazil Axe, Labore	"	"	"	"	"	"	"	1/8	"
	516C	Ditto Brazil Axe, de Tumbia	"	"	"	"	"	"	"	1/6	"
	516D	Ditto Spanish or Mexican Wedge Axe....	"	"	"	"	"	"	"	1/6	"
	516E	Ditto Mexican Axe, with Ears	"	"	"	"	"	"	"	1/6	"
	517A	Ditto New Orleans Squaring Axe	"	"	"	"	"	"	"	1/6	"
	517B	Ditto Ohio Axes, with Steeled Head.....	"	"	"	"	"	"	"	1/6	"
	517C	Ditto Havanna Wedge Axe.....	"	"	"	"	"	"	"	1/6	"
	517D	Ditto Oval Eye ditto	"	"	"	"	"	"	"	1/8	"
	517E	Ditto Round Eye ditto	"	"	"	"	"	"	"	1/8	"
	519A	Ditto Round Eye Indian Axe.....	"	"	"	"	"	"	"	1/8	"
	519B	Solid Cast Steeled Portuguese or Rio Axes	"	"	"	"	"	"	"	1/0	"
	519C	Shear Steel ditto ditto	"	"	"	"	"	"	"	0/10	"
	519D	Steeled Bright and Blued Chilian Axe	"	"	"	"	"	"	"	0/9½	"
	519E	Electro Cast Steel ditto ditto	"	"	"	"	"	"	"	1/8	"
	519F	Steeled Chilian Chopping Axe	"	"	"	"	"	"	"	0/9	"
	519G	Electro Cast Steel Blued	"	"	"	"	"	"	"	1/8	"
	520A	Electro Cast Steel American Wedge Axe, Narrow Pattern ..	"	"	"	"	"	"	"	1/6	"
	521A	Ditto Kentucky Wedge Axe, ditto ..	"	"	"	"	"	"	"	1/6	"

EDWARD BROOKES.

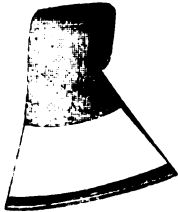
*Electro C.S. Brazil Axe.
Labore Media.*

516A



*Electro C.S. Wide
Brazil Axe, Labore.*

516B



*Electro C.S. Brazil Axe.
De Tumbia.*

516c



*Electro C.S. Spanish or
Mexican Wedge Axe.*

516d



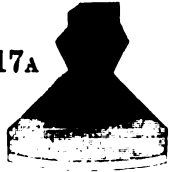
*Electro C.S. Mexican
Axe, with Ears.*

516E



*Electro C.S. New
Orleans Squaring Axe.*

517A



*Electro C.S. Ohio Axe, Electro C.S. Havana
Steeled Head. Wedge Axe.*

517B



517c



*Electro C.S. Oval Eye
Wedge Axe.*

517D



*Electro C.S. Round Eye
Wedge Axe.*

517E



*Electro C.S. Round Eye
Indian Axe*

519A



*Solid Cast Steeled
Portuguese or Rio Axe.*

519B



*Steeled, Bright and
Blued Chilian Axe.*

519D



*Steeled Chilian
Chopping Axe.*

519F



*Electro C.S. Kentucky
Wedge Axe,
Narrow Pattern.*

520A



*Electro C.S. American
Wedge Axe,
Narrow Pattern.*

521A



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	A X E S .									
		3	3½	4	4½	5	5½	6	6½	7	lbs.
	522A	Mexican Axe, Half Labour, Best Solid Cast Steeled									0/11 per lb.
	522B	Ditto	ditto	Shear Steeled.....	"	"	"	"	"	0/9½	"
	522C	Ditto	ditto	Best Solid Cast Steeled	"	"	"	"	"	0/11	"
	522D	Ditto	ditto	Shear Steeled.....	"	"	"	"	"	0/9½	"
	522E	Steeled Flat Eye, Self Colour Brazilian Axe									0/6
	522F	Electro Cast Steel, Flat Eye, Brazilian Axe									1/6
	522G	Havanna Dressing Axe, Best Solid Cast Steeled.....									0/11
	522H	Ditto	ditto	Shear Steeled.....	"	"	"	"	"	0/9½	"
	522J	Spanish Round Eye Axe, Best Solid Steeled									0/11
	522K	Ditto	ditto	Shear Steeled	"	"	"	"	"	0/9½	"
	522M	Columbia Axe, Steeled, Self Coloured									0/9½
	522N	Ditto	ditto	if Bright and Blued	"	"	"	"	"	1/0	"
	522P	Ditto	ditto	Electro Cast Steel, and Blued..	"	"	"	"	"	1/6	"
	522Q	Narrow Brazil Axe, Best Solid Cast Steeled									1/0
	522R	Ditto	ditto	Shear Steeled.....	"	"	"	"	"	0/9½	"
	522S	Dutch Wheelers' Fantail Axe, Best Solid Cast Steeled..									1/2
	522T	Ditto	ditto	Shear Steeled	"	"	"	"	"	1/0	"
	523A	Australian Mortice Axe, Japanned									0/9½
	523B	Ditto	ditto	Best Solid Cast Steeled	"	"	"	"	"	1/0	"
	523C	Ditto	Sydney Pattern, Steeled, Common Polled							0/11	"
	523D	Ditto	ditto	Electro Cast Steeled ..	"	"	"	"	"	1/6	"
	523E	Double-eared Mortice Axe, Best Cast Steeled, Blued ..									1/0
	523F	Carolina Stripping Axe, Best Solid Cast Steeled									1/6
	523G	Ditto	ditto	Steeled, Self Coloured	"	"	"	"	"	0/11	"
	523H	Australian Running Axe, Steel Polled									0/9½
	523J	Ceylon Round Eye Felling Axe, Steeled									0/9½
	523K	Round Eyed Spanish Broad Axe, Steeled									0/8
	523M	Ditto	ditto	Bright and Blued....	"	"	"	"	"	1/0	"
	523N	Ditto	Spanish Felling Axe, Steeled							0/8	"
	523P	Ditto	ditto	Bright and Blued....	"	"	"	"	"	1/0	"

EDWARD BROOKES.

*Mexican Axe,
Half Labor.*



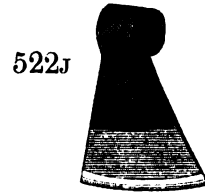
*Steeled, Flat Eye,
Brazilian Axe.*



*Havanna
Dressing Axe.*



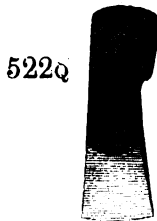
*Spanish
Round Eye Axe.*



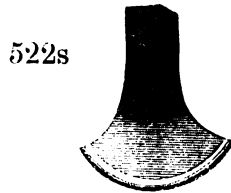
Columbia Axe.



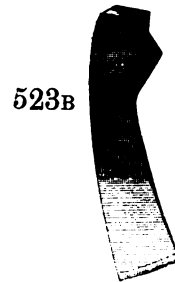
*Narrow
Brazil Axe.*



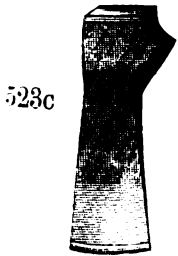
*Dutch Wheeler's
Fan Tail Axe.*



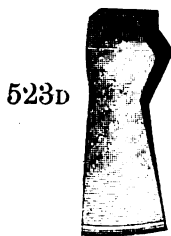
*Australian
Mortice Axe.*



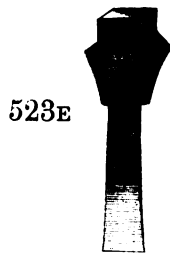
*Australian Axe,
Sydney Pattern.*



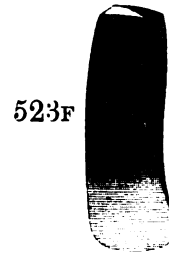
*Best S.P. Australian
Axe, Sydney Pattern.*



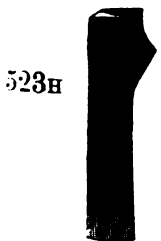
*Mortice Axe,
Double Ear'd.*



Cordina Stripping Axe



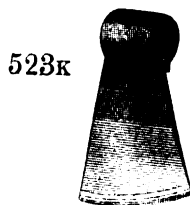
*Australian
Running Axe.*



*Ceylon Round Eye
Felling Axe*



*Spanish Broad Axe,
Round Eye.*



Spanish Felling Axe.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

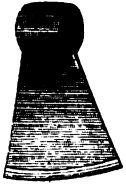
HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	AXES.									
		8	3½	4	4½	5	5½	6	6½	7	lbs.
	525A	Columbia Broad Axe, Round Eye, Steeled									
	525B	Ditto ditto Bright and Blued									
	525C	Ditto Felling Axe, Round Eye, Steeled									
	525D	Ditto ditto Bright and Blued									
	525E	Conception Axe, Steeled.....									
	525F	Ditto Electro Solid Cast Steeled, Blued									
	525G	Montevidian Labra Axe, Steeled									
	525H	Ditto ditto Bright and Blued									
	525I	Ditto Half Labra Axe, Steeled									
	525K	Ditto ditto Bright and Blued									
	525V	Ditto Cuna Axe, Steeled.....									
	525N	Ditto ditto Bright and Blued									
	525P	Guyaquill or Guatamala Axe, Steeled									
	525Q	Ditto ditto Bright and Blued.....									
	525R	Buenos Ayres Hatchet, Self Colour, 2 and 3 lb.....									
	525S	Ditto ditto Bright									
	525T	Ditto ditto Self Colour, 2 and 3 lb.....									
	525U	Ditto ditto Bright									
	530B	Amoor Axe, Electro Solid Cast Steeled, Bright									
		Ditto ditto ditto Handled									
	530C	Ditto Fantail Hatchet, Electro Steeled, Bright..									
		Ditto ditto ditto Handled									
	530D	Batavia Felling Axe.....									
	530E	Ditto ditto Best Cast Steeled.....									
	530F	Ceylon Wedge Axe, Round Eye, Japanned									
	530G	Spanish Axe, Bulged Eye									
	530H	Brazil Axe, new pattern, Electro Cast Steeled									
	530P	Russian Hatchet, Japanned									

EDWARD BROOKES.

*Columbia
Broad Axe.*

525A



*Columbia
Felling Axe.*

525C



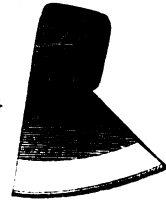
Conception Axe.

525E



*Montevidian
Labra Axe.*

525G



*Montevidian
Half Labra Axe.*

525J



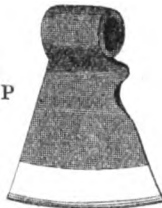
*Montevidian Cuna
Axe.*

525M



*Guyaquill, or
Guatamala Axe.*

525P



*Buenos Ayres
Hatchet.*

525R



*Buenos Ayres
Hatchet.*

525T



Amoor Axe.

530B



*Amoor Fan Tail
Hatchet.*

530C



*Batavia
Felling Axe.*

530D



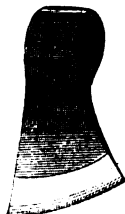
*Ceylon
Wedge Axe.*

530F



*Spanish Axe,
Bulged Eye.*

530G



*Brazil Axe,
New Pattern.*

530H



Russian Hatchet

530P



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

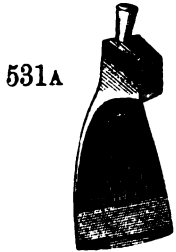
THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

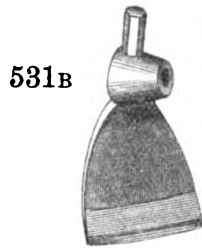
Dis- count.	No.	ELECTRO CAST STEEL BEST FINISHED AMERICAN ADZES.							
			1	2	3	4			
	531A	Solid Steel Carpenters' Adze.....	74/0	77/0	80/0	84/0	per doz.		
		Dimensions of Blade	6½ by 5	7 by 5½	7½ by 5½	8 by 5½	inch.		
			1	2	3	4			
	531B	Solid Steel Carpenters' Adze, Round Eye	74/0	78/0	82/0	86/0	per doz.		
		Dimensions of Blade	6½ by 5	7 by 5½	7½ by 5½	8 by 5½	inch.		
			1	2	3	4			
	531C	Solid Steel Carpenters' Adze, Oval Eye	74/0	78/0	82/0	86/0	per doz.		
		Dimensions of Blade	6½ by 5	7 by 5½	7½ by 5½	8 by 5½	inch.		
			1	2	3	4			
	531D	Solid Steel Wheelers' Adze, Flat Head, Square Eye.	74/0	78/0	82/0	86/0	per doz.		
		Dimensions of Blade	6½ by 5	7 by 5½	7½ by 5½	8 by 5½	inch.		
			0	1	2	3			
	531E	Small, Cast Steel, South American Adze, Blued	82/0	85/0	88/0	41/0	per doz.		
		Dimensions of Blade	6½ by 3½	6½ by 3½	7 by 3½	7½ by 4	inch.		
			1	2	3				
	531F	Cast Steel Platelayers' Adze	84/0	86/0	88/0		per doz.		
		Dimensions of Blade	8 by 5	8½ by 5½	9 by 5½		inch.		
			0000	000	00	0	1	2	
	531G	Spanish Carpenters' Adze, Round Eye, Blued.	23/0	25/6	28/0	31/6	34/0	36/6	doz.
		Dimensions of Blade.....	4½ by 3½	5 by 4½	5½ by 4½	6 by 4½	6½ by 5	7 by 5½	inch.
			0	1	2	3	4	5	
	531H	Solid Head Cast Steel Ribbed Wheelers' Adze.	74/0	77/0	80/0	84/0	88/0	92/0	doz.
		Dimensions of Blade.....	5½ by 3½	5½ by 4	6½ by 4½	6½ by 4½	7½ by 4½	7½ by 5	inch.
			0000	000	00	0	1	2	
	531J	Solid Head Cast Steel Wheelers' Adze	115/0	118/0	121/0	124/0	127/0	130/0	doz.
		Dimensions of Blade	5½ by 4	6 by 4½	6½ by 4½	7 by 4½	7½ by 5	8 by 5½	inch.

EDWARD BROOKES.

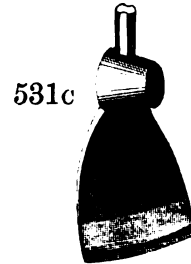
*Solid Cast Steel
Carpenter's Adze.*



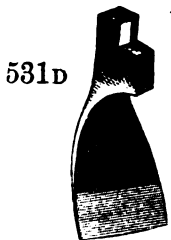
*Solid Cast Steel
Carpenter's Adze,
Round Eye.*



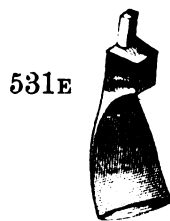
*Solid Cast Steel
Carpenter's Adze,
Oval Eye.*



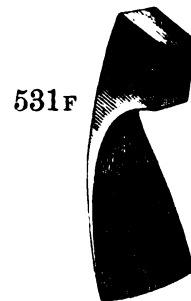
*Solid Cast Steel,
Wheeler's Adze,
Flat Head.*



*Small Cast Steel
South American Adze.*



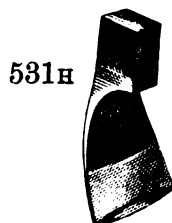
*Cast Steel
Platelayer's Adze.*



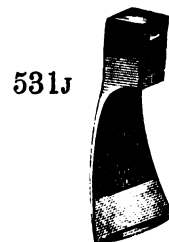
*Spanish Carpenter's
Adze, Round Eye.*



*Wheeler's Adze,
Solid Head, Ribb'd
Cast Steel.*



*Wheeler's Adze,
Solid Head.*



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

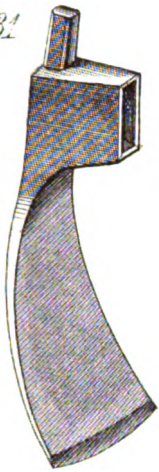
HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	ADZES.				
		No. 1	2	3	4	
	531	Carpenters' Adzes	29/6	31/9	35/3	37/0 per dozen.
	532	Best ditto	36/6	38/9	41/0	44/0 ..
	533	Ship ditto	34/0	38/9	42/3	47/0 ..
	534	Best ditto	42/3	47/0	51/0	54/3 ..
	535	Spout ditto	31/0	33/6	37/0	40/0 ..
	536	Improved Scotch Adzes, Blued	48/0	52/0	56/0	60/0 ..
	537	Ditto ditto Black	44/0	48/0	52/0	56/0 ..
	538	Whealers' Adzes	33/0	35/3	38/3	40/6 ..
	539	Best ditto	42/3	47/0	50/6	54/0 ..
	540	American Adzes, Round Eye, Electro Boracic Steel....	74/0	78/0	82/0	86/0 ..
	541	Ditto ditto ditto Black	56/0	60/0	65/0	70/0 ..
	542	Slot Adzes, Electro Boracic Steel	46/0	48/6	52/0	55/6 ..
	543	Ditto Black	40/0	42/6	48/0	51/6 ..
	543A	Ditto Self Colour	30/0	32/0	34/0	36/0 ..
	544	Coopers' Nail Adzes	28/3	30/6	32/6	36/0 ..
	545	Ditto ditto Cast Steel	36/6	39/6	41/9	44/9 ..
	546	Ditto Sharpe Adzes	28/3	30/6	32/3	36/0 ..
	547	Ditto ditto Cast Steel	36/6	39/6	41/9	44/9 ..
	548	Ditto Nail Adzes, Sexagon Eye, Liverpool Pattern..	47/0	49/6	53/0	55/3 ..
	549	Ditto Sharp Adzes ditto ditto ..	47/0	49/6	53/0	55/3 ..
	550	Ditto Howels	23/6	26/0	28/3	.. ..

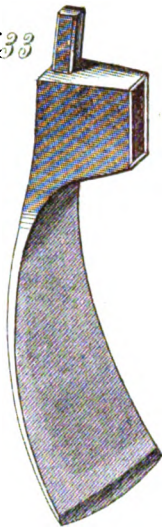
EDWARD BROOKES.

Carpenters Adze

531

*Ship Adze*

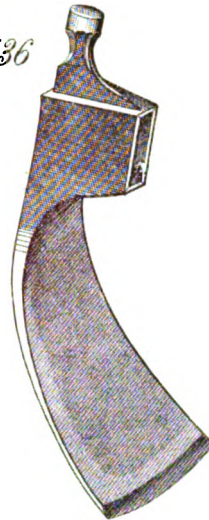
533

*Spout Adze*

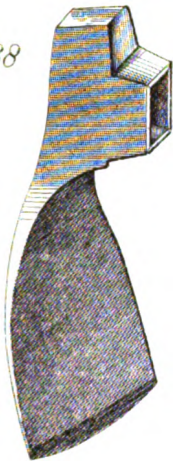
535

*Improved Scots Adze*

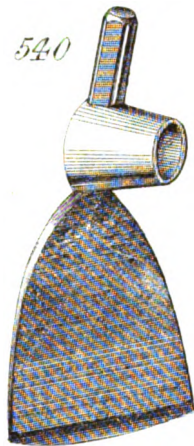
536

*Best Wheelers Adze*

538

*American Adze Round Eye*

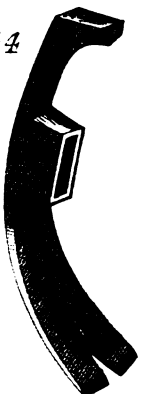
540

*Brazil Slot Adze*

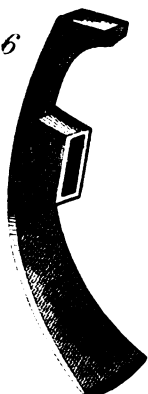
542

*Coopers Sharp Adze
Liverpool Pattern**Coopers Nail Adze*

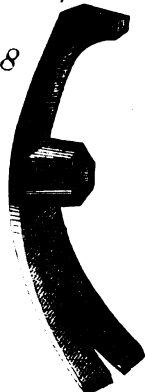
544

*Coopers Sharp Adze*

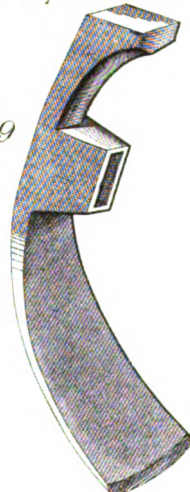
546

*Coopers Nail Adze
Liverpool Pattern*

548



549



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

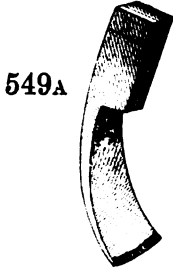
Dis- count.	No.	ADZES, AXES, AND HATCHETS.				
			No. 1	2	3	4
	539A	Best Cast Steel, Axe Eyed, Wheeler's or Fencing Adze..	48/0	50/6	53/0	56/0 per dozen.
	549A	Solid Square Head Cooper's Adze.....	50/0	52/6	55/0	.. ..
	550A	Spanish Cooper's Howel	23/6	26/0	28/3	.. ..
	550B	Egyptian ditto Bright	32/0	34/6	37/0	.. ..
	550C	Cast Steel Cooper's Hatchet	28/0	30/0	32/0	35/0 ..
	550D	Ditto ditto ditto Blued.....	36/0	38/0	40/0	43/0 ..
	550E	Cast Steel Spanish Broad Side Axe, Segura para labrar, 15 inches cut by 10 inches deep, 66/0 each.				
	550F	Ditto ditto Side Axe, Bright, 30/0 each.				
	550G	Ditto ditto Cooper's Dressing Axe. Bright, 21/0 each.				
	550H	Ditto ditto ditto Round Eye, ditto 21/0 ..				
	550J	Spanish Cooper's Bowl Adze, Cast Steel, Azuela de Botas, Broad Square Edge, 10 inches deep, 8 inches cut, 10/0 each.				
			No. 0	1	2	3
	550K	Spanish Cooper's Bowl Adze, Round Edge.....	38/0	42/0	46/0	50/0 per doz.
	550M	Ditto Hollow Adze, Azuela para Barriles, 58/0 per doz.				
	550N	Cast Steel Spanish Socket, Side Axe, Siguerala 9 in. cut, 5 in. deep, 70/0 per doz.				
	550P	Ditto ditto Cooper's Froe, Cuchillo de Encantor, 10 in. cut, 4½ in. deep, 60/0 per doz,				
		16 in. long by 2½ 2¾ 3 3½ 3½ inches.				
	550R	Ditto ditto ditto Jointer Iron, Hierros de Plana, 36/0 39/0 42/0 45/0 48/0 per doz				

EDWARD BROOKES.

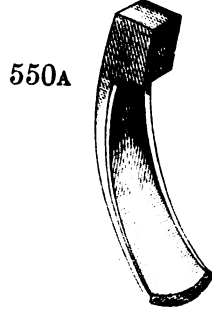
*Axe Eyed Wheeler's
or Fencing Adze.*



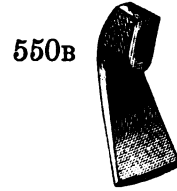
*Solid Square Head
Cooper's Adze.*



*Spanish
Cooper's Howel.*



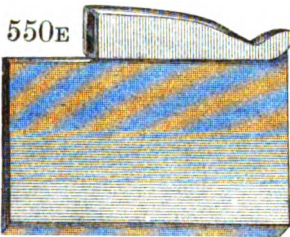
*Egyptian
Cooper's Howel.*



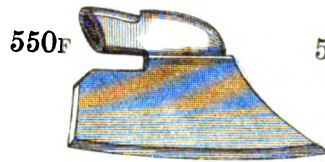
*C. S. Cooper's
Hatchet.*



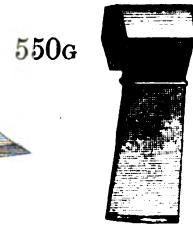
*Spanish Broad Side Axe,
Segura para Labrar.*



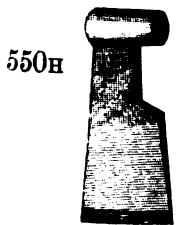
Spanish Side Axe.



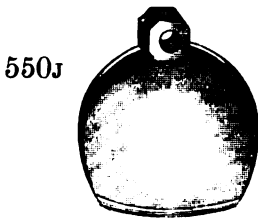
*Spanish Cooper's
Dressing Axe.*



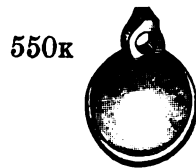
*Spanish Cooper's
Dressing Axe,
Round Eye.*



*Spanish Cooper's
Bowl Adze,
Azuela de Botas.*



*Spanish Cooper's
Bowl Adze.*



*Spanish Cooper's
Hollow Adze,
Azuela Para Barriles.*



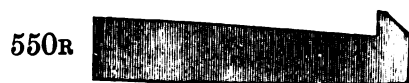
*Spanish Socket Side Axe,
Segureta.*



*Spanish Cooper's Froe,
Cuchillo de Encantor.*



*Spanish Cooper's Jointer Iron,
Hierros de Planu.*



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

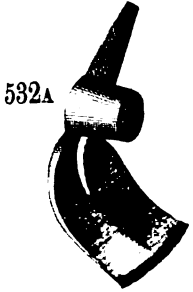
THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	ADZES AND HATCHETS.				
		No.	1	2	3	4
	532A	Spanish Spike Adze, Cast Steel	69/0	72/0	75/0	78/0 per doz.
	532B	Ditto Hammer Headed Adze, Cast Steel	39/0	42/0	45/0	48/0 „
	532C	Ditto Bent Loop Adze, Cast Steel, Blued	48/0	50/6	53/0	.. „
	532D	Ditto ditto ditto Self Coloured ..	36/0	38/6	41/0	.. „
	532E	Portuguese Loop Adze, Self Coloured	24/0	26/6	29/0	31/6 „
		Size	4½ by 4½	5 by 4½	5½ by 4½	6 by 5 inch.
	532F	Ditto ditto Cast Steel, Blued	40/0	42/6	45/0	47/6 per doz.
		Size	4½ by 4½	5 by 4½	5½ by 4½	6 by 5 inch.
	532G	Ditto Hollow Loop Adze, Cast Steel, Blued	46/0	48/6	51/0	53/6 per doz.
		Size	4½ by 4½	5 by 4½	5½ by 4½	6 by 5 inch.
	532H	Spanish Oval Eyed Carpenter's Adze, Cast Steel, Blued	40/0	42/6	45/0	.. per doz.
	532J	Egyptian Carpenter's Adze	28/0	30/6	33/0	35/6 „
	532K	Hammer Headed Bowl Adze, Cast Steel	43/0	45/6	48/0	51/0 „
	532M	Portuguese Caude, or Guttering Adze, Cast Steel, Blued	31/6	34/0	36/6	39/6 „
	532N	Ditto ditto ditto ditto Black	21/6	24/6	26/6	29/6 „
	532P	Ditto Bowl Adze, Cast Steel, Blued	34/0	36/6	39/0	41/6 „
	532R	Ditto ditto ditto Black	24/0	26/6	29/0	31/6 „
	532S	Ditto ditto Wide Pattern, Cast Steel, Blued	36/6	39/0	41/6	45/0 „
	532T	Ditto ditto ditto ditto Black	26/6	29/0	31/6	35/0 „
	532U	French Hand Hatchet.....	30/0	per doz.		
	532V	French Hand Side Hatchet ..	40/0	„		
			2	2½	3 lbs.	
	532W	Brick Hammer Hatchet.....	16/0	18/6	21/0	per doz.

EDWARD BROOKES.

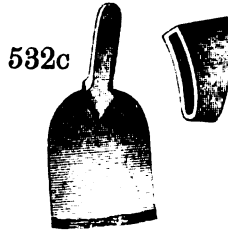
Spanish Spike Adze.



Hammer Headed Adze.



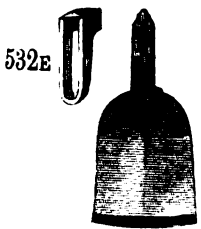
Bent Loop Adze.



Bent Loop Adze.



Portuguese Loop Adze.



Portuguese Loop Adze.



Portuguese Hollow Loop Adze.



Spanish Oval Eyed Carpenter's Adze.



Egyptian Carpenter's Adze.



Hammer Headed Bowl Adze.



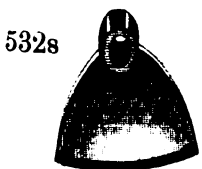
Portuguese Cande or Guttering Adze.



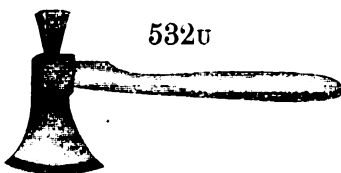
Portuguese Bowl Adze.



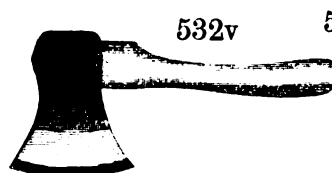
Portuguese Bowl Adze, Wide Pattern.



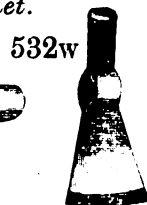
French Hand Hatchet.



French Hand Side Hatchet.



Brick Hammer Hatchet.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

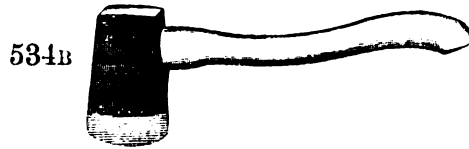
Dis- count.	No.	HATCHETS.				
			No. 1	2	3	4
	534A	Solid Steel Kentucky Hatchet or Half Axe	40/0	42/6	45/0	48/0 per dozen.
	534B	Ditto Canadian ditto ditto	40/0	42/6	45/0	48/0 ..
	534C	Ditto American Side Hatchet, Bright and Blued..	44/0	46/6	49/0	52/0 ..
	534D	Ditto Spanish Claw Hatchet ditto ..	48/0	50/6	53/0	56/0 ..
	534E	Ditto Hammer Hatchet, with Claw	42/6	45/0	48/0	51/0 ..
	534F	Ditto Polled Broad Axe, Handled	45/0	47/6	50/0	52/6 ..
	534G	Ditto Hand Hatchet	40/0	42/6	45/0	48/0 ..
	534H	Ditto Flat Polled Shingling Hatchet	40/0	42/6	45/0	48/0 ..
	534J	Ditto Pioneer's Hatchet	46/6	49/0	52/0	55/0 ..
	534K	Ditto Hammer Head Shingling Hatchet	40/0	42/6	45/0	48/0 ..
	534M	Ditto Claw Hatchet	45/0	47/6	50/0	52/6 ..
			1	1½	1½	2 lbs.
	534N	Solid Steel Indian Hatchet, Bright and Blued ..	..	..	46/6	49/0 52/0 per dozen.
	534P	Ditto Spanish Hatchet ditto	42/6	45/0	47/6	50/0 53/0 ..

EDWARD BROOKES.

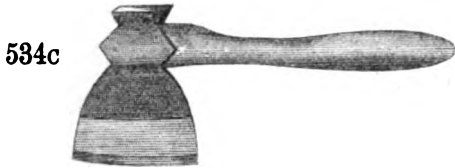
Solid Steel Kentucky Hatchet.



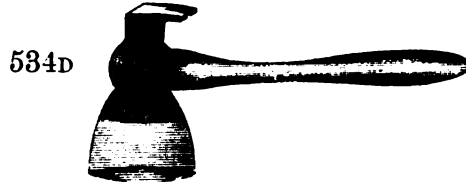
Solid Steel Canadian Hatchet.



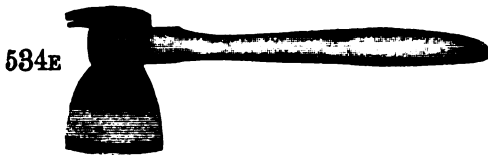
Solid Steel American Side Hatchet.



Solid Steel Spanish Claw Hatchet.



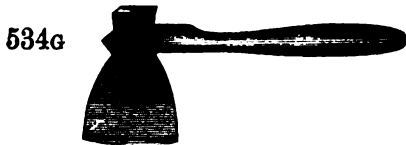
Solid Steel Hammer Claw Hatchet.



*Solid Steel, Poll'd,
Handled Broad Axe.*



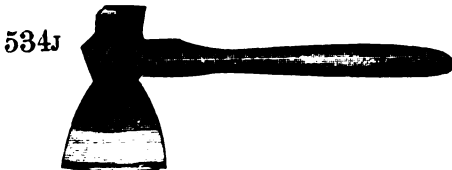
Solid Steel Hand Hatchet.



*Solid Steel, Flat Poll'd,
Shingling Hatchet.*



Solid Steel Pioneer's Hatchet.



*Solid Steel, Hammer Head,
Shingling Hatchet.*



Solid Steel Claw Hatchet.



Solid Steel Indian Hatchet.



Solid Steel Spanish Hatchet.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

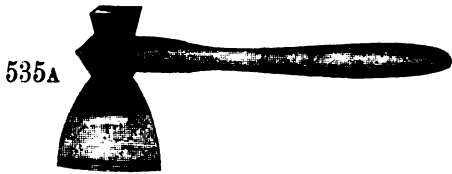
THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

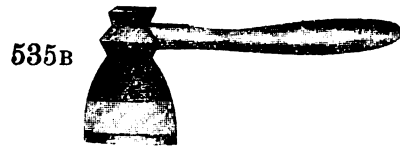
Dis- count	No.	HATCHETS.						
		No.	1	2	3	4	5	6
	535A	American Pioneer's Hatchet, Steeled, Bright, and Blued	35/0	37/6	40/0	42/6	45/0	48/0 per doz.
	535B	Ditto Hand ditto ditto ditto	35/0	37/6	40/0	42/6	45/0 48/0	..
	535C	Ditto Handled Broadside Hatchet, Steel Poll'd ditto	33/0	35/0	37/6	40/0	42/6 45/0	..
	535D	Ditto Flat Head Shingling Hatchet, Steel ditto	35/0	37/6	40/0	42/6	45/0 48/0	..
	535E	Ditto Side Hatchet, Steeled, Bright and Blued	35/0	37/6	40/0	42/6	.. ..	..
	535F	Ditto Claw Hatchet, ditto ditto	37/6	40/0	42/6	45/6	.. ..	..
	535G	Ditto Shingling Hatchet, ditto	32/0	34/6	37/0	40/0	.. ..	..
	535H	Ditto Hammer Hatchet, with Claw ditto	37/6	40/0	42/6	45/6	.. ..	..
	535J	Canadian Hatchet, Steeled, Bright and Blued	32/0	34/6	37/0	40/0	.. ..	..
	535K	Kentucky Hatchet ditto ditto	32/0	34/6	37/0	40/0	.. ..	..
	535M	Spanish Claw Hatchet, ditto ditto	37/6	40/0	42/6	45/6	.. ..	..
	535N	American Lathing Hatchet, with Handle	35/0	37/6	40/0	42/6	.. ..	..
	535P	Ditto ditto with Socket Handle	56/0	59/0	62/0	65/0	.. ..	..
	535R	Australian Hand Hatchet, Bright, Best Cast Steel	40/0	42/6	45/6	48/6	.. ..	..

EDWARD BROOKES.

American Pioneer's Hatchet, Steeled.



American Hand Hatchet, Steeled.



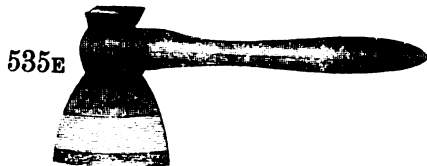
American Broad Side Hatchet, S. P.



American Flat Head Shingling Hatchet.



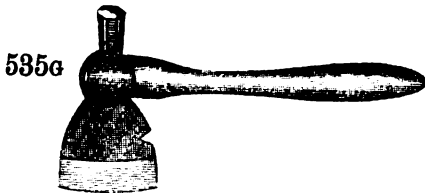
American Side Hatchet.



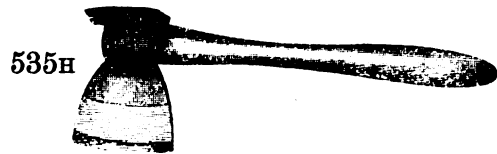
American Claw Hatchet.



American Shingling Hatchet.



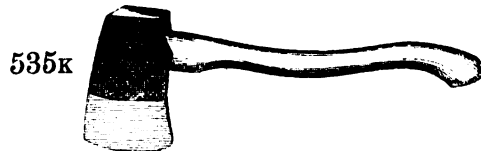
American Hammer Hatchet, with Claw.



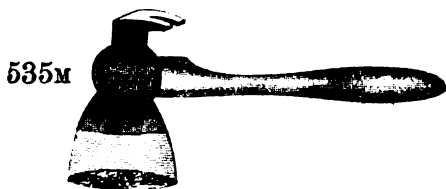
Canadian Hatchet.



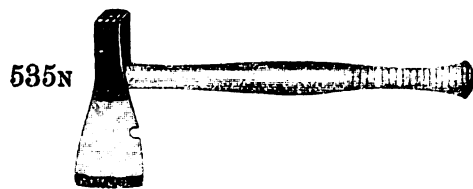
Kentucky Hatchet.



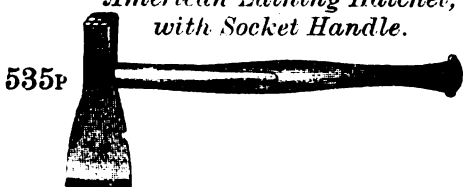
Spanish Claw Hatchet.



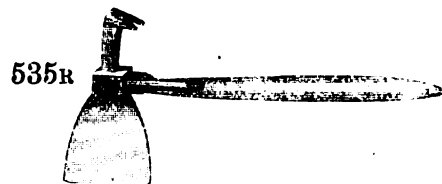
American Lathing Hatchet.



American Lathing Hatchet, with Socket Handle.



Australian Hand Hatchet.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

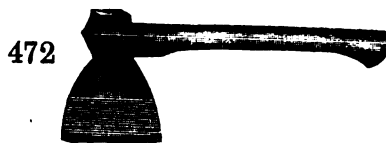
Dis- count.	No.	HATCHETS							
			0	1	2	3	4	5	6
	470	Common Helved Hatchets .....	..	12/6	13/6	15/0	17/0	..	.. per doz.
	471	Ditto Polled ditto .....	..	15/9	17/0	18/6	21/0	..	..
	472	Black Helved ditto	14/9	15/3	16/6	18/3	20/6	23/0	26/0
	473	Bright ditto ditto	18/9	19/6	20/6	22/6	27/0	29/6	32/3
	474	Best Kent, Bright, Polled ditto, Handled	21/3	21/9	23 0	24/9	30/6	33/0	35/3
	475	Shingling Hatchets, Black .....	..	18/0	19/0	21/0	23/0	..	..
	476	Ditto ditto Bright .....	..	21/6	22/6	24/6	27/0	..	..
	476A	Best ditto ditto Bright and Blued .....	..	24/0	26/6	29/0	..	..	..
	477A	Boat Hatchets or Axes, Steel Polled .....	..	35/0	37/6	40/0	43/0	..	..
	477B	Helved Felling Hatchets, Black.....	14/9	15/3	20/6	22/6	25/0	..	..
SLATERS' TOOLS.									
	537A	Slaters' Roofing Tools, 30/0 per dozen.							
	537B	Ditto Knives, Black.....	..	50/0	55/0	60/0	..	..	..
	537C	Ditto Froes, or Rippers, Blade 24 inches. 36/0							
TANNERS' AND CURRIERS' KNIVES.									
	537D	Best Single Edged Tanners' Knives, 18 inches long, 48/0 per dozen.							
	537E	Ditto Double Edged ditto ditto 72/0 ..							
				$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	inch.	
	537F	Common Curriers' Knives.....	50/0	55/0	60/0	72/0	per doz.		
	537G	Cast Steel Rivetted ditto	68/0	72/0	84/0	96/0	..		
	537H	Ditto ditto Improved, with Screws	71/0	75/0	87/0	99/0	..		
	537J	Ditto Curriers' Knife Blades	36/0	37/0	38/0	40/0	..		
			10	11	12	inches diameter.			
	537K	Round Skinners' Moon Knives.....	40/0	43/0	46/0	per doz.			
	537M	Ditto Cast Steel, Warranted	56/0	60/0	66/0	..			
			5	5½	6	6½	7	inches.	
	537N	Cast Steel Sadlers' Knives, Single Tang.....	15/0	15/6	16/6	18/0	21/0	per doz.	
	537P	Ditto ditto Double Tang	16/0	18/0	20/0	22/0	24/0	..	

EDWARD BROOKES.

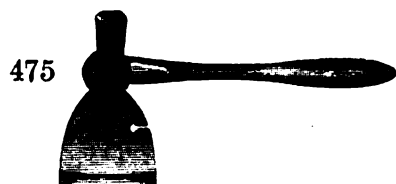
Common Helved Hatchet.



Black Helved Hatchet.



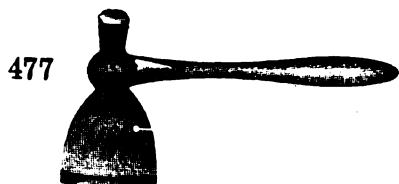
Black Shingling Hatchet.



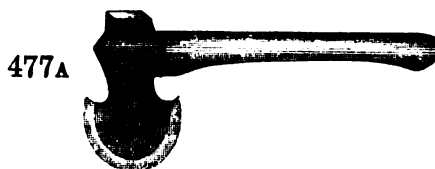
Bright Shingling Hatchet.



Bright and Blued Shingling Hatchet.



Boat Hatchet or Axe, Steel Polished.



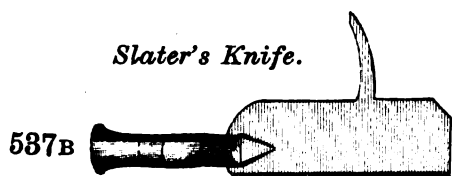
Helved Felling Hatchet.



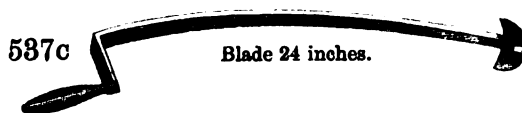
Slater's Roofing Tool.



Slater's Knife.

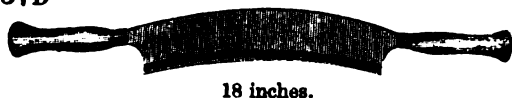


Slater's Free or Ripper.



Blade 24 inches.

537D *Single Edged Tanner's Knife.*



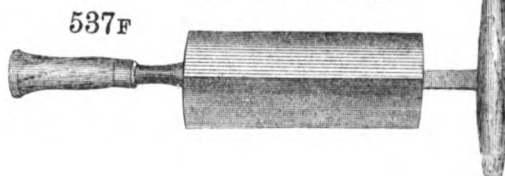
18 inches.

Double Edged Tanner's Knife.



18 inches.

Currier's Knife.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	BILL HOOKS, &c.	No.					
			0	1	2	3	4	
	539A	West Indian Cane Bill, Black	18/6	21/0	23/6	26/0	..	per doz.
	539B	Ditto ditto Bright	21/0	23/6	26/0	28/0	..	..
		If all Cast Steel Blades, Polished, 24/0 per doz. extra.						
	539C	Mauritius, or French Cane Bill, Black	18/6	21/0	23/6	26/0	..	..
	539D	Ditto ditto Bright	21/0	23/6	26/0	28/0	..	..
		If all Cast Steel Blades, Polished, 24/0 per doz. extra.						
	539E	Nottinghamshire Bill, Wood Handle	21/0	23/6	26/0	29/0	32/0	..
	539F	Ditto ditto Socket Handle	21/0	23/6	26/0	29/0	32/0	..
		If Bright, 4/6 per doz. extra.						
	539G	Broom Hook	21/0	23/6	26/0	29/0	..	..
	539H	Kent Bill, Cast Steel, with Bent Wood Handle	21/0	23/6	26/0	29/0	..	..
		If Solid Steel Edges, 10/0 per doz. extra.						
	539J	Lopping Bill, Solid Steel Edges	35/0	37/6	40/0	43/0	..	..
	539K	Pioneers' Hook, with Ferrule, Solid Steel .....	..	100/0	104/0	108/0	..	..
			Size 12 by 2.					
			12½ by 2.					
			13 by 2½ in.					
	539M	Straight Single Edge Bill	29/0		31/6		34/0	per doz.
	539N	Cast Steel Spear Point Lopping Bill	37/6		40/0		43/0	..
	539P	Banana Pruner, Cast Steel, Blued, Wood Handle	37/6		39/0		41/0	..
	539R	Straight Back Hedging Bill, extra strong	48/0		52/0		56/0	..
	539S	Furze Hook, 43/0 per doz.						
	539T	Spanish Hedging Bill, 32/0 per doz.						
	539U	Oxfordshire Bill	28/0		30/0		32/6	..
	539V	Pine Bill, Black, 21/0 per dozen.						
	539W	Masons' Bill	23/6		26/0		29/0	..
	539X	Cotton Hook, wide, all Steel, Bright	30/0		..		..	..
	539Y	Ditto narrow	17/6		..		..	..
	539Z	So. American Grass Knife, all Steel	15/6		..		..	..

EDWARD BROOKES.

West India Cane Bill, black. *West India Cane Bill, bright.* *Mauritius or French Cane Bill,*

539A



539B

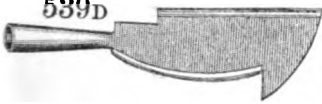


539C black.



Mauritius or French Cane Bill, bright.

539D



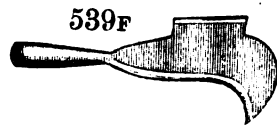
*Nottinghamshire Bill,
Wood Handle*

539E



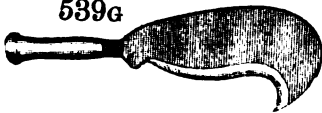
*Nottinghamshire Bill,
Socket Handle.*

539F



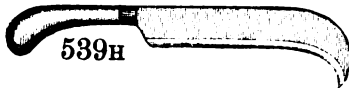
Broom Hook.

539G



Kent Bill, C. S., Bent Wood Handle.

539H



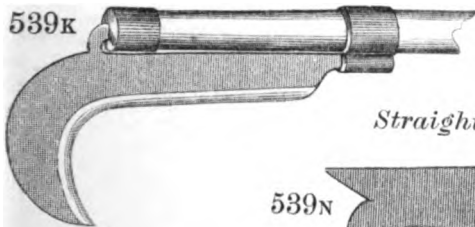
Lopping Bill.

539J



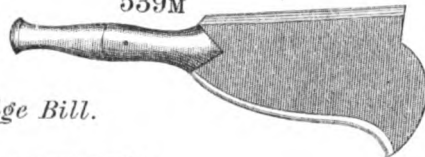
*Pioneer's Hook, with Ferrule,
Solid Steel*

539K



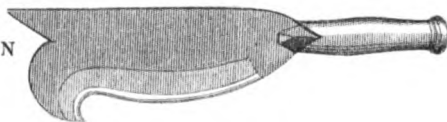
Spear Point Lopping Bill

539M



Straight Single Edge Bill.

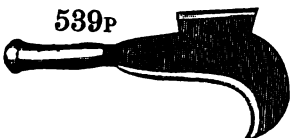
539N



Furze Hook.

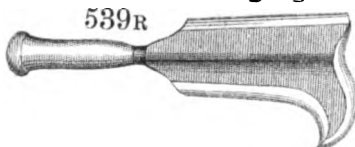
Banana Pruner, Wood Handle.

539P

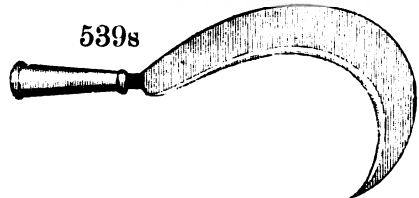


Straight Back Hedging Bill.

539R

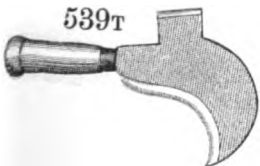


539S



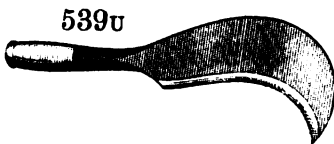
Spanish Hedging Bill.

539T



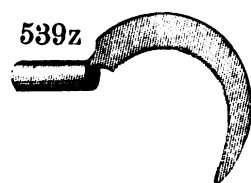
Oxfordshire Bill Hook.

539U



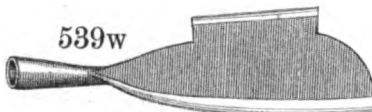
So. American Grass Knife.

539Z



Mason's Bill.

539W



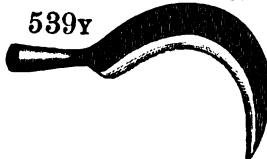
Pine Bill.

539V



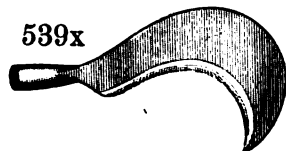
Cotton Hook.

539Y



Cotton Hook.

539X



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

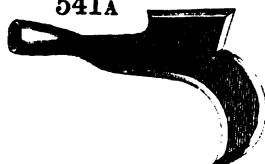
HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	BILL HOOKS, &c.							
			1	2	3				
	541A	Banana Pruners, Cast Steel, Blued	39/0	41/0	43/0	per dozen.			
	541B	Ditto ditto ditto Spear Point	39/0	41/0	43/0	..			
	541C	So. American Brush Hooks	25/0	27/6	31/0	..			
	541D	Ditto ditto Steeled and Blued	32/6	35/0	38/6	..			
	541E	Ditto ditto Cast Steel	36/0	38/6	42/6	..			
	541F	Peruvian Calabazos	36/6	39/0	42/6	..			
	541G	Serpentas, Cast Steel, Bright	32/0	34/6	37/0	..			
	541H	Indigo Knives, ditto	29/6	32/0	34/6	..			
	541J	Ditto Cast Steel, Broad, Bright	31/0	33/6	36/0	..			
	541K	Ditto Socket Grass Knife, Toothed	31/0	33/6	36/0	..			
	541M	Ditto Toothed	31/0	33/6	36/0	..			
	541N	So. American Bill Hook	23/6	26/0	29/0	..			
	541P	Pruning Hook, Black	21/6	24/0	26/6	..			
	541R	Briar Hook, ditto	31/0	33/6	36/0	..			
	541S	Ditto Blued	40/6	43/0	45/6	..			
			12	13	14	15	16	17	18 inches.
	541T	Brazilian Sugar Bill, C. S., Blued	36/0	38/6	41/0	43/6	45/0	47/0	50/0 per doz.
	541U	Ditto ditto Steeled and Blued	26/0	28/6	31/0	33/6	35/0	37/0	40/0 ..
	541V	Ditto ditto Self Coloured	22/0	24/6	27/0	29/6	31/0	33/0	36/0 ..
	541W	Assamese Daws, Wood Handles, Black .....	..	31/0	per dozen.				
	541X	Ditto ditto Bright and Blued ....	..	45/6	..				
	541Y	Ditto Horn Handles, Cast Steel, Blued ....	..	62/0	..				
	541Z	Double Edge Felling Hook, Steeled, 31/0; if Cast Steel ..	..	40/0	..				
	543B	Assamese Daws, Socket Handles .....	..	27/6	..				
	543C	Ditto Cast Steel, Bright .....	..	43/0	..				
	543D	Tobacco Knife, Cast Steel, Blade 16 inches long .....	..	120/0	..				
	543E	Vine Hook, all Cast Steel, Polished Handles, Bright ..	..	44/6	..				
	0543	Assamese Daws, Socket, Straight Back .....	..	31/0	..				

EDWARD BROOKES.

Banana Pruner, Cast Steel.

541A



*Banana Pruner, Cast Steel,
Spear Point.*

541B



So. American Brush Hook.

541C



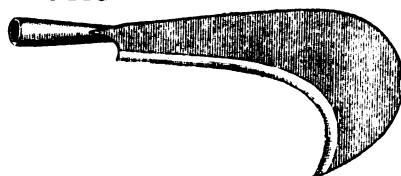
Peruvian Calaboza.

541F



Serpatus, C. S.

541G



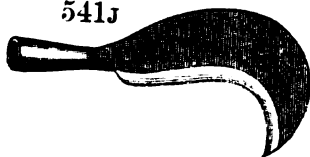
Indigo Knife, C. S.

541H



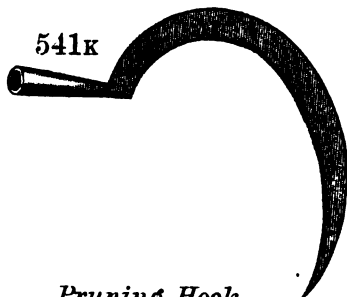
Indigo Bill, Broad, C. S.

541J



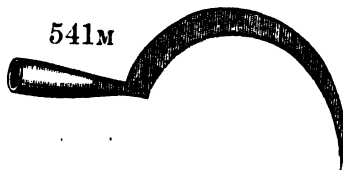
Socket Indigo Grass Knife, Toothed.

541K



Indigo Knife, Toothed.

541M



So. American Bill.

541N



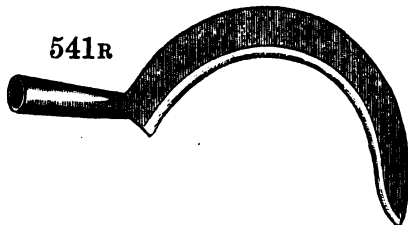
Pruning Hook.

541P



Briar Hook.

541R



Brazilian Sugar Bill.

541T



*Assamese Daws,
Wood Handle.*

541W



Double Edge Felling Hook.

541Z



Tobacco Knife, Cast Steel.

543D



Assamese Daws, with Socket.

543B



*Vine Hook, all Cast Steel,
bright.*

543E



*Assamese Daws, Socket,
Straight Back.*

0543



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

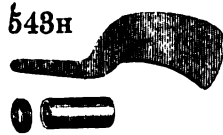
Dis- COUNT.	No.	BILL HOOKS, &c.				
			12	13	14 inches.	
543f	Portuguese Grass Knife, Black		22/0	24/6	27/0	per doz.
543g	Ditto ditto all Steel, Blued		46/0	48/6	51/0	„
		No. 1	2	3	4	5
543h	Ceylon Cattie, with Ferrule, Steeled	28/0	30/6	33/0	36/0	.. per doz.
543j	Ditto ditto Solid Steeled	40/0	42/6	45/0	48/0	.. „
543k	Ditto ditto all Cast Steel	45/0	48/0	51/0	54/0	.. „
543m	Banana Pruner, all Cast Steel, Blued	33/0	35/6	38/0	41/0	.. „
543n	Ditto Pruning Hook, Spear Point, ditto	33/0	35/6	38/0	41/0	.. „
			8	9	10 inches.	
543p	Qauntanies, or Ceylon Straight Cattie Knife		27/6	30/0	32/6	per doz.
		1	2	3	4	5 inches.
543r	Spanish Hook, or Calaboza, with Tang	23/6	25/0	26/6	28/0	30/0 per doz.
543s	Ditto ditto Steeled and Blued ..	30/0	32/6	34/0	36/0	38/0 „
543t	Ditto ditto Solid Cast Steel	50/0	52/6	55/0	57/6	60/0 „
543u	American Bill Hook, Strapped, 66/0 per doz.					
543v	Bush Hook, Cast Steel, Bright and Blued, 61/0 per doz.					
		No. 1	2	3	4	5
543w	Eyed Calaboza	34/0	36/6	39/0	..	.. per doz.
543x	Calaboza, or Spanish Hook, with Eye	25/0	26/6	28/0	29/6	31/0 „
543y	Ditto ditto Steeled and Blued ..	32/6	34/0	35/6	37/0	38/6 „
543z	Ditto ditto Solid Cast Steel	50/0	52/6	55/0	57/6	60/0 „
549a	So. American Cane Bill, Horn Handle, 74/0 per doz.					
549b	Ditto ditto without Handle, 66/0 per doz.					
549c	Ditto ditto Blued, 2/6 per doz. extra.					
549d	Ditto Hooked Cane Bill, Horn Handle, 74/0 per doz.					
549e	Ditto ditto without Handle, 66/0 per doz.					
549f	Ditto ditto Blued, 2/6 per doz. extra.					
		No. 1	2	3		
549g	Peruvian Hedge Bill, Square End	25/0	27/6	30/0	per doz.	
549h	Ditto ditto Solid Steeled	41/0	43/6	46/0	„	
549j	Ditto ditto Round End	25/0	27/6	30/0	„	
549k	Ditto ditto Solid Steeled	41/0	43/6	46/0	„	
549m	Mexican Cane Knife, Solid Steel, Blued, 44/0 per doz. ; Steeled ditto, second quality, 36/0					
549n	So. American Cane Matchet, Horn Handle, 63/0 per doz. ; if Blued, 9/0 per doz. extra.					

EDWARD BROOKES.

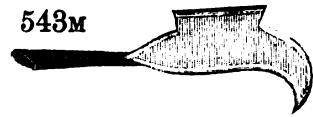
Portuguese Grass Knife.



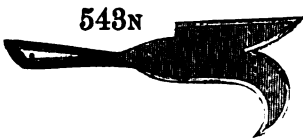
Ceylon Cattie, with Ferrule.



Banana Pruner.



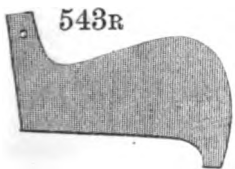
Banana Hook, Spear Point.



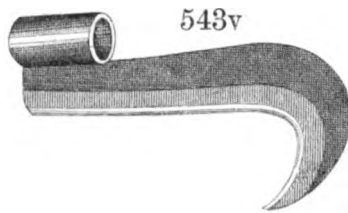
Quantanies, or Ceylon Straight Cattie Knife.



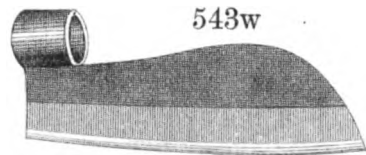
ish Hook, or Calaboza, with Tang.



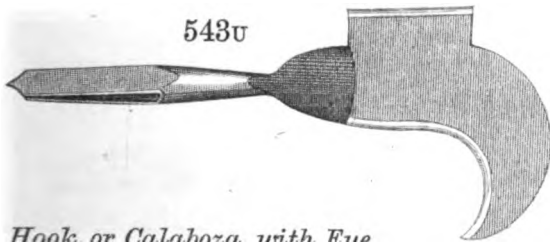
Bush Hook.



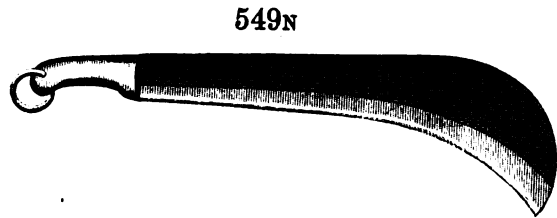
Eyed Calaboza.



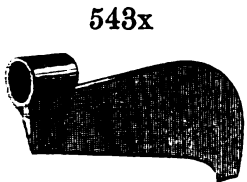
Strapped American Bill Hook.



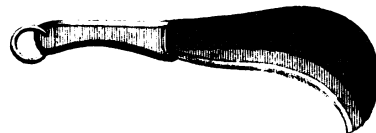
So. American Cane Matchet, Horn Handle.



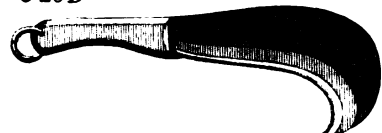
ish Hook, or Calaboza, with Eye.



So. American Hook'd Cane Bill, Horn Handle.



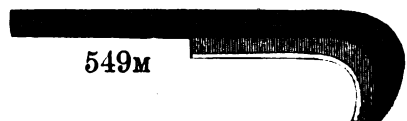
So. American Cane Bill, Horn Handle.



ruvian Hedge Bill, Square End. Peruvian Hedge Bill, Round End.



Mexican Cane Knife.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

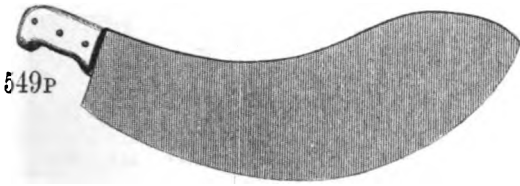
THE ILLUSTRATED SHEFFIELD LIST.

HEAVY EDGE TOOLS.—Continued.

Dis- count.	No.	
549p		Porto Rico Matchets, all Steel, Horn Handles, 70/0 per dozen.
549r		Ditto ditto ditto 70/0 ..
549s		Best Cast Steel Matchets, Polished, Horn Handles,
		6 7 8 9 10 11 12 14 16 18 20 22 24 26 28 inches
		120/0 123/0 126/0 129/0 132/0 135/0 138/0 142/6 145/0 148/6 152/6 156/6 160/0 164/0 168/0 per doz.
		18 20 22 24 26 28 30 inches.
549t		Best Cast Steel Matchets, Polished Horn Handles, 147/0 150/0 153/0 156/0 161/0 166/0 170/0 per doz.
		18 20 22 24 inches.
549u		Wood Handle, Brass Rivet, Matchets, 1½ inch wide 10/6 11/3 12/0 13/6 per doz.
		Ditto ditto 2 inch wide 12/6 13/9 15/0 16/9 ..
		If Two Furrows, 0/9 ; if Three Furrows, 1/6 per doz. extra. Brass Head Rivets, 1/0 per doz. extra.
		17 18 20 22 24 inches.
549v		SA. MA. Solid Cast Steel Matchets, Polished Horn Handles, 102/0 105/0 108/0 112/0 116/0 per doz.
549w		Best Cast Steel Matchets, Polished Horn Handles, 63/0 per dozen.
		18 20 22 24 inches.
549x		West India Cast Steel Cane Matchets, with Sockets.... 29/0 32/0 35/0 38/0 per doz.
		14 16 18 inches.
549y		Cane Knives, all Steel, Wood Handles..... 30/0 33/0 36/0 per doz.
		If Cast Steel, Wood Handles, 6/0 per dozen extra.
549z		Socket Cane Knives, 42/0 per dozen.
550a		Ditto ditto 42/0 ..
550b		Cane Knives, Best Cast Steel, Polished, 40/0 per dozen.
		10 11 12 13 14 inches.
550c		Jute Cutters, all Steel, Wood Handles..... 25/0 27/6 30/0 32/6 36/0 per dozen.
550d		Warranted English Reaping Sickles per dozen.
		No. 0 1 2 3
550e		Socket Switching Bills 34/0 36/6 39/0 42/0 per dozen.

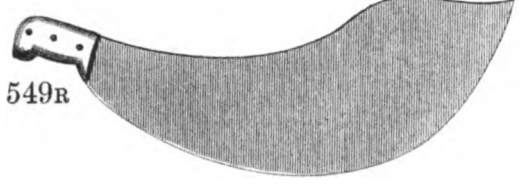
EDWARD BROOKES.

Porto Rico Matchet, all Steel, Horn Handle.



549P

Porto Rico Matchet, all Steel, Horn Handle.



549R

Best Cast Steel Matchet, polished.



549S

Best Cast Steel Matchet, polished.



549T

Wood Handle, Brass Rivet Matchet.



549U

S.A.M.A. Solid Cast Steel Matchet.



549V

Best Cast Steel Matchet, polished.



549W

West India Cast Steel Cane Matchet.



549X

Cane Knife, all Steel.



549Y

Socket Cane Knife.



549Z

Socket Cane Knife.



550A

Cane Knife, Best Cast Steel.



550B

Jute Cutter, all Steel.



550C

Warranted English Reaping Sickles.



550D

Switching Bill.



550E

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

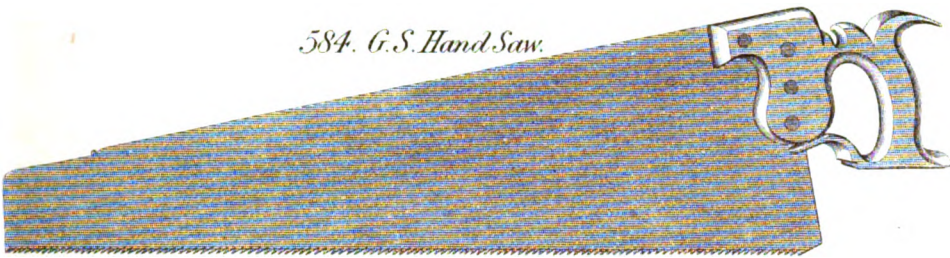
THE ILLUSTRATED SHEFFIELD LIST.

SAWS.

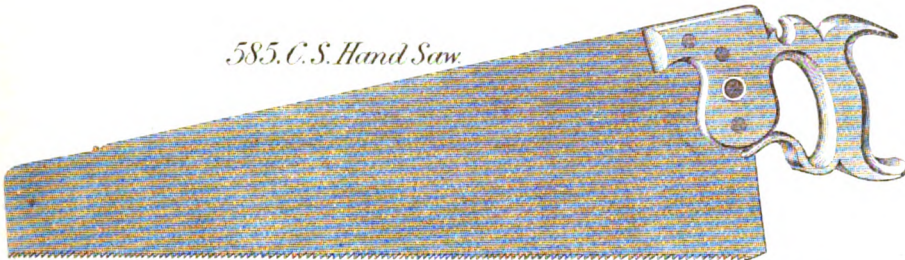
Dis- count.	No.	IRON SAW BOWS, WITHOUT WEBS.																					
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 in.						
48f	Single Nutted	24/0	26/0	28/0	28/0	30/0	32/0	34/0	36/0	44/0	52/0	62/0	72/0	80/0	88/0	96/0	104/0 doz.						
	Improved Pattern	24/0	30/0	36/0	42/0	48/0	54/0	60/0	66/0	72/0	78/0	90/0	108/0	120/0	132/0	144/0	156/0						
	Double Nutted	36/0	42/0	48/0	54/0	60/0	66/0	72/0	78/0	90/0	108/0	120/0	132/0	144/0	156/0	168/0	180/0						
		HAND, PANEL, RIPPING, AND GRAFTING SAWS.																					
		10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44 in.				
584	German Steel	24/0	28/0	34/0	40/0	46/0	50/0	56/0	62/0	64/0	70/0	76/0	88/0	100/0	120/0	140/0	160/0	180/0	200/0 doz.				
585	Cast Steel	28/0	34/0	42/0	48/0	54/0	58/0	64/0	72/0	74/0	80/0	86/0	98/0	118/0	135/0	155/0	175/0	195/0	215/0				
586	G. S. or C. S. Grafting Saws	same price as 584 or 585.																					
587	Warranted London Spring	62/0	70/0	74/0	84/0	90/0	96/0	108/0	120/0	134/0	150/0	170/0	190/0	215/0	245/0								
		Mahogany Handles, 8/0 per doz. extra gross. French Polished Handles, 6/0 per doz. extra gross. Polished Plates, to 26 in., 40/0; to 28 in., 55/0; to 30 in., 70/0 per doz. extra gross. Fine-Toothed Saws, 10 to 12 points, 2/0; above 12 points, 3/0 per doz. extra gross.																					
		IRON AND BRASS BACK SAWS.																					
		10	12	14	16	18	20	22	24 in.														
588	Warranted London Spring Brass Backs	84/0	96/0	108/0	120/0	132/0	144/0	160/0	180/0 doz.														
589	Cast Steel Brass Backs	72/0	80/0	90/0	104/0	112/0	118/0	130/0	144/0														
590	Ditto Spring Iron Backs	64/0	68/0	72/0	82/0	86/0	88/0	106/0	130/0														
591	Ditto Blue or Bright Backs	56/0	60/0	64/0	72/0	76/0	78/0	96/0	120/0														
592	German Steel Bright Iron Backs	48/0	52/0	56/0	62/0	66/0	68/0	78/0	90/0														
593	Ditto Blue Backs	50/0	54/0	58/0	64/0	68/0	70/0	80/0	92/0														
		Polished Plates and Backs to 18 inches, 48/0 per doz. extra gross. Mahogany Handles to 12 inches, 7/0; to 14 inches, 8/0 per doz. extra gross. French Polished Handles, 6/0 per doz. extra gross.																					
		TABLE SAWS.																					
		12	14	16	18	20	22	24	26	28	30 in.												
594	German Steel	28/0	32/0	36/0	40/0	44/0	48/0	52/0	56/0	60/0	66/0 doz.												
595	Cast Steel	32/0	36/0	40/0	44/0	48/0	54/0	58/0	62/0	66/0	70/0												
		COMPASS, OR LOCK SAWS.																					
		10	12	14	16	18	20 in.																
596	German Steel	13/0	15/0	18/0	21/0	24/0	26/0 doz.																
597	Cast Steel	20/0	21/0	22/0	24/0	26/0	28/0																
		CAST STEEL WEBS, FOR CUTTING IRON OR BRASS.																					
		8	9	10	11	12	13	14	15 inches.														
598		10/0	11/0	12/0	13/0	14/0	15/0	16/0	17/0 per dozen.														
		FRET SAWS.																					
599	Fret Saws, assorted to 9 inches, 6/6; to 12 inches, 7/6; to 14 inches, 9/6 per dozen.																						
600	Fret Saws, if Set and Sharpened, 1/6 per dozen extra gross.																						
	Double Fret Saws, 9 to 12 inches, 13/0 per dozen.																						
601	Steel Doctors or Calico Webs, 33 by 2½ inches each,	21	20	19	18 wire gauge.																		
	Steel Doctors or Calico Webs, 42 by 2½ inches each,	73/6	75/6	77/6	79/6 per dozen.																		
	Composition Doctors or Calico Webs, 33 by 2½ in. each, 85/0	91/0	97/0	103/0	109/0	115/0 per dozen.																	
	Composition Doctors or Calico Webs, 42 by 2½ in. each, 99/6	107/0	114/0	121/6	129/0	137/0 per dozen.																	
	German Silver Doctors or Calico Webs, 33 by 2½ in. ea. 107/0	114/0	123/0	134/0	145/0	158/0 per dozen.																	
	German Silver Doctors or Calico Webs, 42 by 2½ in. ea. 127/6	136/0	147/0	158/0	171/6	186/0 per dozen.																	
		CAST STEEL TURNING OR CHAIR WEBS, SET AND SHARPENED.																					
602		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48 inch.	
		8/0	8/6	9/0	11/0	13/0	15/0	18/0	20/0	24/0	27/0	30/0	32/0	34/0	36/0	39/0	42/0	45/0	48/0	51/0	54/0	57/0 doz.	
		BILLET OR CANADA WEBS.																					
		28	30	32	34	36	39	42	45	48	51	54	57	60 inch.									
603	Cast Steel	35/0	39/0	44/0	46/0	54/0	61/0	66/0	79/0	103/0	109/0	113/0	123/0	140/0 doz.									
604	German Steel	31/0	35/0	40/0	42/0	50/0	55/0	60/0	73/0	94/0	100/0	104/0	114/0	130/0 ..									
		Billet or Canada Webs, Setting and Sharpening, to 28 in., 6/6; above 28 to 34 in., 7/6; above 34 to 45 in., 10/0 per doz. extra gross.																					
		CAST STEEL STONE SAWS.																					
		5	5½	6	6½	7	7½	8 feet.															
		26/0	27/0	30/0	34/0	37/0	42/0	47/0 each.															
		If more than 9 inches wide to 5½ feet, 2/0; above 5½ feet, 3/0 per inch extra gross.																					
		BUTCHERS' BRIGHT STEEL BOW SAWS, WITH NUTS AND SCREWS, AND SAW HANDLES.																					
		12	14	16	18	20	22	24 inches.															
	Butchers' Bow Saw Blades	84/0	87/0	90/0	96/0	108/0	120/0	144/0 per dozen.															
	Endless Band Saws (Brazen), Circular Saw Spindles, with Brasses, Pedestals, Fast and Loose Pullies, Circular Saw Benches, complete. Special Quotations given.	19/0	19/0	20/0	21/0	22/0	23/0	24/0															

EDWARD BROOKES.

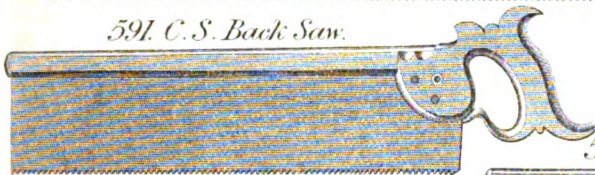
584. G.S. Hand Saw.



585. C.S. Hand Saw.



591. C.S. Back Saw.



598. Iron Web.



592. G.S. Back Saw.



586. C.S. Grafting Saw.



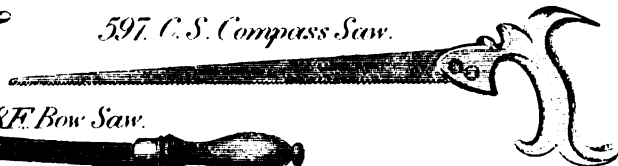
594. G.S. Table Saw.



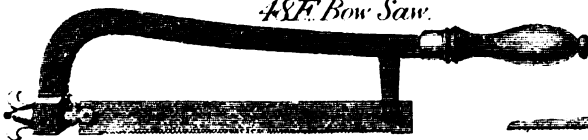
Tenon Saw:



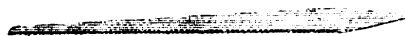
597. C.S. Compass Saw.



48E. Bow Saw.



599. Fret Saw.



601. Doctor or Calico Web.



602. Turning or Chair Web.



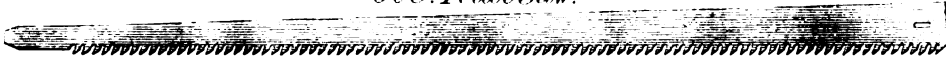
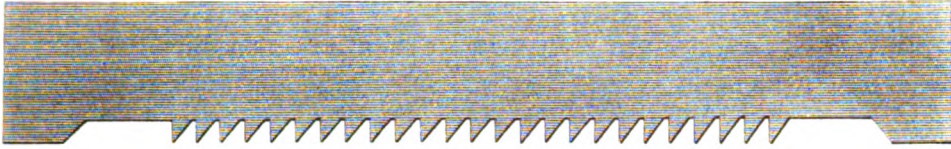
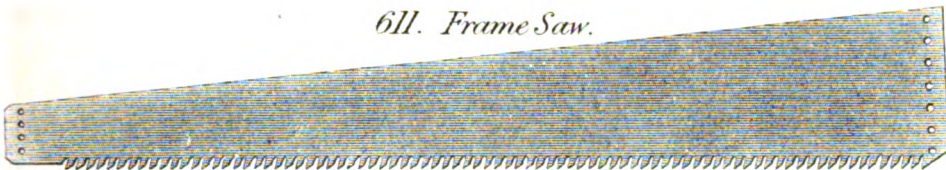
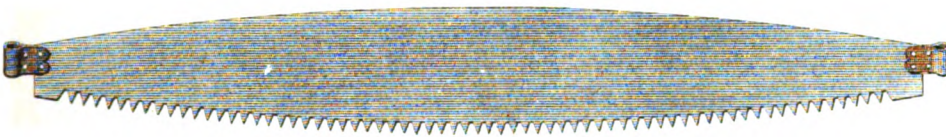
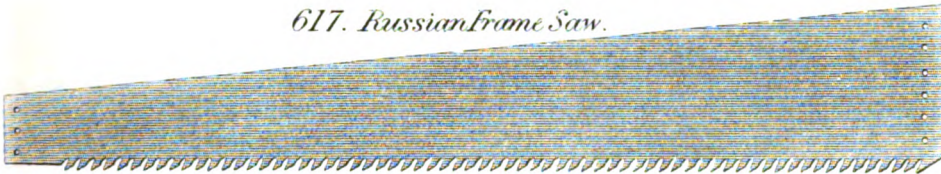
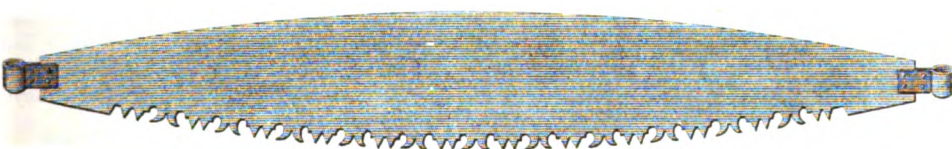
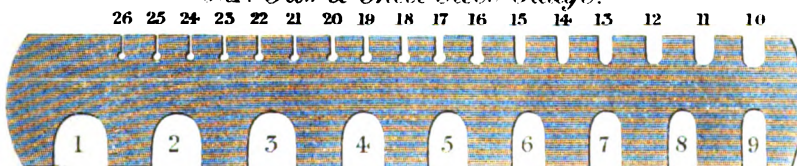
603. C.S. Billet or Canada Web.



THE ILLUSTRATED SHEFFIELD LIST.

SAWS.—Continued.

No		FELLOE SAWS.													
		4	4½	5	5½	6	6½	7	feet.						
605	Cast Steel.....	8/0	9/0	10/0	12/0	14/0	16/0	18/0	each.						
CAST STEEL MULEY SAWS.															
606	7 feet long by 12 inches wide, 4 and 6 guage								66/0	each.					
	7½ ditto ditto ditto								70/0	"					
607	7 ditto by 14 inches wide, ditto								74/0	"					
	7½ ditto ditto ditto								80/0	"					
PIT AND FRAME SAWS.															
		4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	feet.
608	Cast Steel, Warranted.....	19/0	21/0	23/0	26/0	29/0	32/0	35/0	40/0	46/0	50/0	58/0	66/0	76/0	each.
609	Cast Steel	16/6	17/6	19/6	21/0	24/0	26/0	28/0	33/0	39/0	46/0	54/0	62/0	72/0	"
610	German Steel	15/0	16/0	18/0	19/6	22/0	24/0	26/0	30/0	36/0	42/0	50/0	58/0	68/0	"
611	Cast Steel, Warranted.....	19/0	21/0	23/0	26/0	29/0	32/0	35/0	40/0	46/0	50/0	58/0	66/0	76/0	"
612	Cast Steel	16/6	17/6	19/6	21/0	24/0	26/0	28/0	33/0	39/0	46/0	54/0	62/0	72/0	"
613	German Steel	15/0	16/0	18/0	19/6	22/0	24/0	26/0	30/0	36/0	42/0	50/0	58/0	68/0	"
Pit and Frame Saws, exceeding 11 in. Heel, to advance 2/0 per in.; exceeding 12 in. Heel, 3/0 per in. extra gross. Frame Saw Buckles and Tillers, 6/0 to 10/0 per pair. Pit Saw Buckles and Tillers, 2/6 per lb. Wood Pit Saw Boxes, 18/0 per doz. nett.															
CROSS CUT SAWS.															
		4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	feet.
614	Cast Steel, Warranted.....	14/0	16/0	19/0	20/0	24/0	26/0	28/0	31/0	42/0	48/0	58/0	66/0	76/0	each.
615	Cast Steel	13/0	15/0	18/0	19/0	22/0	24/0	26/0	31/0	39/0	45/0	54/0	62/0	72/0	"
616	German Steel	12/0	14/0	17/0	18/0	20/0	22/0	24/0	28/0	36/0	42/0	50/0	58/0	68/0	"
Cross Cut Handles, 3/0 per dozen pairs, nett.															
RUSSIAN FRAME SAWS.															
		5	5½	6	6½	7	feet long.								
617		9½	10	10½	11	12	inches wide.								
		19/0	21/0	24/0	26/0	30/0	each.								
Russian Mill Saws, Polish, Russian, French, and German Cross Cut and Frame Saws.															
TUTTLE'S PATENT CROSS CUT SAWS.															
		4	4½	5	5½	6	6½	7	feet.						
619		24/0	26/0	29/0	32/0	35/0	38/0	44/0	each.						
The Patent Cross Cut Saw is sent out set and sharpened ready for use. The Patent Cross Cut Saw is made of every size, with Large or Small Teeth.															
CAST STEEL STAVE SAWS.															
		4½	5	5½	6	feet.									
620		17/0	19/0	21/0	24/0	each.									
621	Saw and Sheet Steel Gauge.....								4/0	each, nett.					
CONVEX, SWAGED, OR BEVILLED CIRCULAR SAWS, FOR VENEERING.															
		15	16	18	20	inches.									
630		46/0	49/0	57/0	71/0	each, 9 Gauge by 19 Gauge on Tooth, and 2½ inch Swage.									
		24	26	28	30	inches.									
631		97/0	113/0	129/0	145/0	each, 9 Gauge by 19 Gauge on Tooth, and 3½ inch Swage.									
		24	28	32	36	inches.									
632		103/0	127/0	167/0	200/0	each, 8 Gauge by 19 Gauge on Tooth, and 4 inch Swage.									
		24	28	32	36	inches.									
633		111/0	143/0	175/0	210/0	each, 7 Gauge by 19 Gauge on Tooth, and 4 inch Swage.									
		24	28	32	36	inches.									
634		117/0	145/0	177/0	214/0	each, 7 Gauge by 19 Gauge on Tooth, and 5 inch Swage.									
		34	38	42	..	inches.									
635		240/0	306/0	386/0	..	each, 5 Gauge by 19 Gauge on Tooth, and 6 inch Swage.									
If stronger than the above-named Gauges, will be charged extra. All Saws of less dimensions than those in the List to be charged the same price as the smallest size named.															
BEST CAST STEEL CIRCULAR SAWS, FOR GROOVING.															
		1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	1 inch thick.
		0/9	1/0	1/8	1/9	1/10	2/0	2/2	2/4	2/6	2/6	2/9	3/0	3/6	per inch diameter, nett.
BEST CAST STEEL CIRCULAR SAWS, for Sawing Steel, Iron, Copper, & Brass.															
	Diameter	4	5	6	7	8	9	10	11	12	inches.				
	Thickness	16	15	15	14	14	14	13	13	13	gauge.				
	Bright ..	2/9	3/9	4/3	5/0	5/9	6/6	7/10	8/8	9/9	each, nett.				
	Black....	2/0	2/9	3/2	3/10	4/3	4/9	5/9	6/6	7/4	"				
Circular Saws, for Cutting Pearl or Ivory, same price as above; if stronger than these Gauges, to be charged extra.															
CIRCULAR SAWS (Black), for Cutting Iron Rails.															
	Diameter..	36	38	40	42	44	46	48	50	52	54	56	58	60	inches.
	Thickness..	10	10r	9	9	9r	9r	8	8	8	7	7	7	7	gauge.
each nett.															

EDWARD BROOKES.*605. Felloe Saw.**606. Muley Saw.**608. Pit Saw.**611. Frame Saw.**614. Cross Cut Saw.**617. Russian Frame Saw.**619. Tuttle's Patent Cross Cut Saw.**620. Stave Saw**621. Saw & Sheet Steel Gauge.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

SAWS.—Continued.

No.

618

622

623

624

625

626

627

628

629

RUSSIAN CROSS CUT SAWS.

3 1/2

4

4 1/2

5

feet long.

6 1/2

7 1/2

8

8 1/2

inches wide.

9/0

13/0

15/0

18/0

each.

VENEER WEBS, WITH OR WITHOUT TEETH.

8 1/2

4

4 1/2

5

5 1/2

6

feet.

10/0

12/0

14/0

16/0

18/0

20/0

each.

If above 4 1/2 inches wide, to advance 1/8 per 1/4 inch extra gross.

CAST STEEL MILL SAW WEBS.

15 Gauge.

14 Gauge.

13 Gauge.

3 1/2

4

4 1/2

feet.

5

5 1/2

6

feet.

6 1/2

7

feet.

4 inch. wide.. 9/6 11/0 12/0 each.

5 1/2 inch. wide.. 18/6 20/6 22/0 each

7 inch. wide.. 26/6 28/6 each.

4 1/2 ditto .. 10/0 11/6 12/6 ..

6 ditto .. 19/6 21/6 23/0 ..

7 1/2 ditto .. 28/0 29/6 ..

5 ditto .. 10/6 12/0 13/0 ..

6 1/2 ditto .. 20/6 22/0 24/0 ..

8 ditto .. 29/6 31/0 ..

If wider or stronger than the dimensions named, the prices advance proportionately. Mill Web Tilters and Buckles.

WARRANTED CAST STEEL MILL SAWS, Extra Tempered.

4

4 1/2

5

5 1/2

6

6 1/2

7

7 1/2

8

feet.

8 Gauge..... 26/0 28/0 30/0 32/0 38/0 42/0 46/0 52/0 58/0 each.

9 .. 24/0 26/0 28/0 30/0 35/0 39/0 43/0 49/0 55/0 ..

10 .. 22/0 24/0 26/0 28/0 32/0 36/0 40/0 46/0 52/0 ..

11 .. 20/0 22/0 24/0 26/0 30/0 34/0 38/0 44/0 50/0 ..

12 .. 19/0 21/0 23/0 25/0 28/0 32/0 36/0 42/0 48/0 ..

Gang, Drag, or Battling Saws, same prices as above.

MILL SAWS.

4 1/2

5

5 1/2

6

6 1/2

7

7 1/2

8

feet.

Cast Steel 24/0 26/0 28/0 32/0 36/0 40/0 46/0 52/0 each.

German Steel 20/0 22/0 24/0 26/0 29/0 33/0 38/0 44/0 ..

Mill Saws wider than 8 inch, to 5 1/2 feet 1/8 per inch : if wider than 8 1/2 inch, above 5 1/2 feet long, 2/0 per 1/4 inch extra gross.

Mill Saws, stronger than 8th Gauge, to be charged to 5 1/2 feet, 2/0 : above 5 1/2 feet, 3/0 per Gauge extra gross. C.S. Mill Saws,

Hardened and Tempered, stronger than 10th Gauge, to be charged to 5 1/2 feet, 2/0 : above 5 1/2 feet, 3/0 per Gauge extra gross.

CAST STEEL IVORY BLADES.

12

14

16

18

20

22

24

26

28

30

33

36

38

40

inches.

18/0

21/0

24/0

27/0

30/0

33/0

36/0

39/0

42/0

45/0

49/0

54/0

57/0

60/0

dozen.

CAST STEEL STONE SAWS.

5

5 1/2

6

6 1/2

7

7 1/2

8

feet.

24/0

26/0

28/0

31/0

34/0

38/0

42/0

each.

If exceeding 9 inches wide, 2/0 per inch extra gross.

CAST STEEL SPAN WEBS.

12

14

16

18

20

22

24

26

28

30

33

36

38

40

inches.

18/0

21/0

24/0

27/0

30/0

33/0

36/0

39/0

42/0

45/0

49/6

54/0

57/0

60/0

doz.

PATENT SOLID ENDLESS BAND SAWS, made any length to order.

WARRANTED CAST STEEL CIRCULAR SAWS.

4

4 1/2

5

6

7

8

9

10

12

14

16

18

20

22

24

26

28

30

inches.

4/6

5/0

6/0

7/0

8/0

9/6

11/0

13/0

16/0

20/0

24/0

30/0

36/0

42/0

48/0

56/0

66/0

76/0

each.

..

..

..

..

..

..

..

..

17

17r

18

15

14

14r

13

13

12

12

gauge.

32

34

36

38

40

42

44

46

48

50

52

54

56

58

60

inches.

88/0

104/0

120/0

145/0

160/0

180/0

215/0

240/0

270/0

380/0

420/0

480/0

570/0

620/0

680/0

each.

12

12r

11

11

11r

10r

10

9r

9

8r

8

7

6

5r

5

gauge.

Circular Saws, stronger than the Gauge named, the prices advance proportionately. Improved Cast Steel Circular Saws, for Cutting Iron, same prices as above.

INSTRUCTIONS TO BE OBSERVED IN ORDERING CIRCULAR SAWS.

First, give the Thickness required, by stating the Number of the Gauge ; Secondly, give the Number or Form of the Tooth required ; Thirdly, give the Size of the Tooth required, by stating the distance from Point to Point of Tooth, or the Number of Points within the inch, if Small Teeth ; Fourthly, give the Diameter of the Hole required for Spindle of Circular Saws.

CAST STEEL CIRCULAR SAWS FOR SAWING SLATE.

Diameter.... 10 12 14 16 18 20 22 24 26 28 inches.

Thickness .. 11 11 11 10 10 10 10 10 10 10 gauge.

Bright..... each, nett.

Black

If stronger than these Gauges, to be charged extra.

BILLET SAW AND FRAME.

26

28

30

32

36

inches.

144/0

144/0

150/0

156/0

168/0

per doz.

26

28

30

32

34

36

inches.

AMERICAN BOW SAWS..... 84/0 86/0 96/0 110/0 118/0 126/0 per doz.

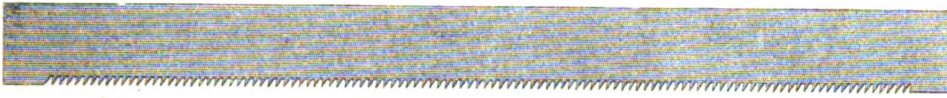
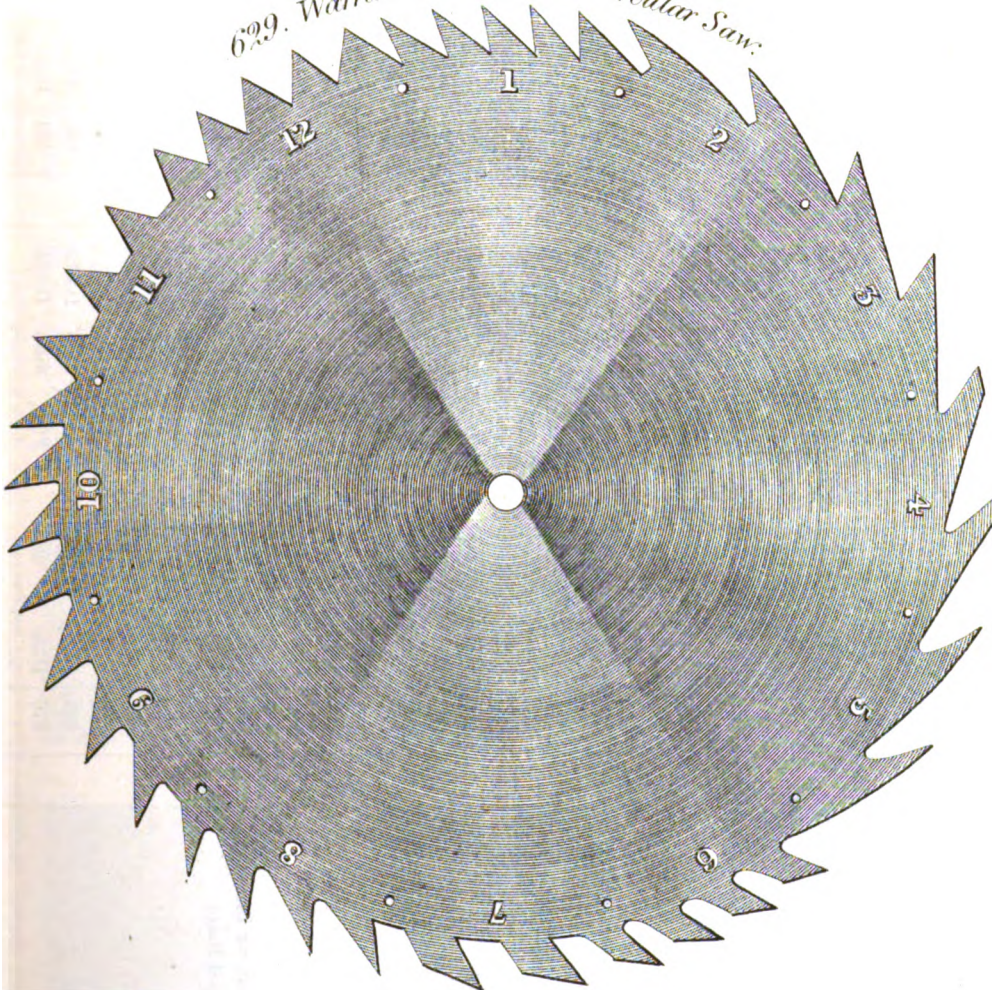
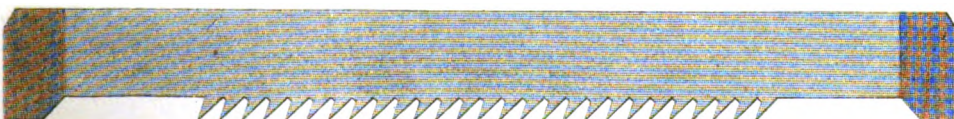
8

10

12

inches.

DOVETAIL SAWS..... 72/0 72/0 80/0 per doz.

EDWARD BROOKES.*622. Veneer Web.**618. Russian Cross Cut Saw.**609. Warranted Cast Steel Circular Saw.**623. Mill Saw Web.**624. Mill Saw.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

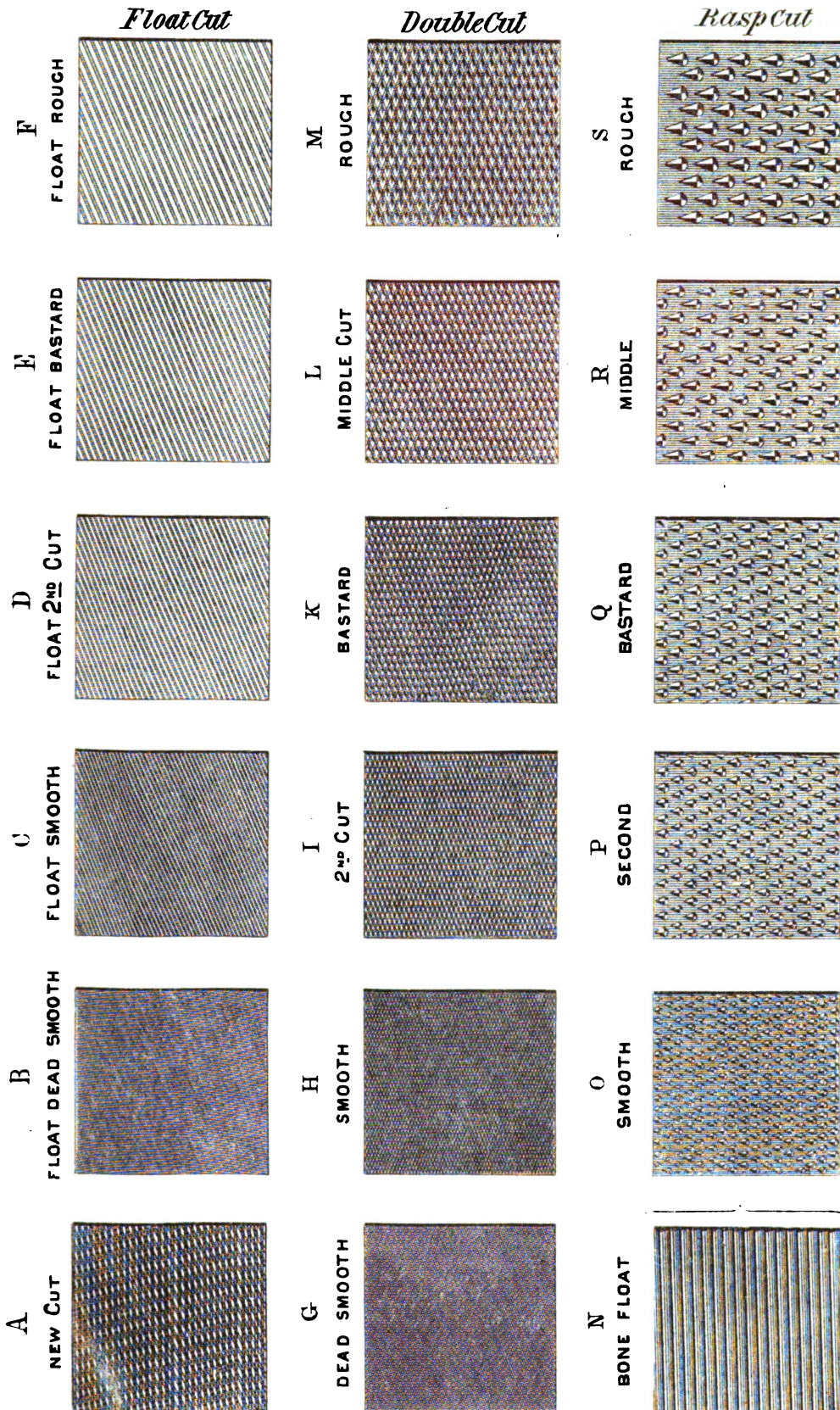
THE ILLUSTRATED SHEFFIELD LIST.

PRICES OF FILES AND RASPS.

In consequence of considerable advances both in Wages and Materials, it was unanimously resolved, at a General Meeting of File Manufacturers, held at the Cutlers' Hall, Sheffield, on the 16th May, 1872, that the following List of Prices be adopted by the Trade, from this date.

PRICES OF FILES AND RASPS.

No.	Dis- count	No.	Dis- count	No.	Dis- count	No.	Dis- count
636		Flat Files.		654A		Flat Files, with one Round Edge.	670A
637		Entering Files.		655		Flat Files, with two Round Edges.	671
638		Mill Saw Files.		656		Equalling Files.	672
639		Square Files.		657		Cant Files.	672A
640		Cotter Files, Taper Points.		658		Feather Edge Files.	673
641		Half-round Files.		659		Cross Files.	674
642		Round Files.		660		Slotting Files.	675
643		Three-square Files.		661		Tumbler Files.	676
644		Horse Shoe Rasps.		662		Riffler Files.	676A
645		Ditto ditto, Tanged.		663		Arch Files.	676B
645A		Flat Rasps.		664		Lock Files.	677
646		Hand Files.		665		Double-tanged and Blunt Mill Saw Files.	
646A		Parallel New Cut, for Brass.		666		Parallel Cotter Files.	677A
647		Half-round Wood Rasps.		667		Taper Three-square Saw Files, 2nd Cut, Single.	677B
648		Cabinet Rasps.		667A		Ditto ditto Double.	678
649		Ditto Files.		668		Blunt ditto Single.	678A
650		Pillar Files.		668A		Ditto ditto Double.	679
651		Needle Files.		669		Gullet and Frame Saw Files, ditto Single.	680
652		Round-off Files.		669A		Ditto ditto Double.	681
653		Bone Files.		670		Ditto ditto Fine,	681A
654		Pottance Files.					



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

FILES AND RASPS.—Continued.

Flat, Half-round, Square, Round, Entering, Taper, Cotter, Horse, Shoe, Flat, and Half-round Rasps.										Three-square, Hand, Equalling one Safe Edge, Parallel, Cotter, Pillar, Needle, Round-off, Bone, Pottance, Round Edged Flat, Extra Thin Flat, and Flat and High-back Half-round.										Hand and Equalling. Cut both Edges, or with one Double Cut Edge.									
ROUGH AND BASTARD.			2nd CUT FLAT & 1-ROUND GUNSTOCKERS' AND ROUND RASPS.			SMOOTH FILES AND CABINET FILES AND RASPS.			DEAD SMOOTH AND EXTRA SMOOTH CABINETS.			ROUGH AND BASTARD.			2nd CUT.			SMOOTH.			DEAD SMOOTH.								
Per Dozen.			Per Dozen.			Per Dozen.			Per Dozen.			Per Dozen.			Per Dozen.			Per Dozen.			Per Dozen.								
£ s. d.			£ s. d.			£ s. d.			£ s. d.			£ s. d.			£ s. d.			£ s. d.			£ s. d.								
Inches.			Inches.			Inches.			Inches.			Inches.			Inches.			Inches.			Inches.								
1to4	0 4 9	0 5 6	0 6 9	0 10 3	0 7 6	0 5 3	0 6 0	0 7 6	0 11 3	0 8 3	0 6 3	0 7 6	0 11 3	0 8 3	0 6 3	0 7 6	0 11 3	0 8 3	0 6 3	0 7 6	0 11 3	0 8 3							
4½	0 5 3	0 6 0	0 7 6	0 11 3	0 8 3	0 5 9	0 6 6	0 8 3	0 12 6	0 9 0	0 6 6	0 7 6	0 12 6	0 9 0	0 6 6	0 7 6	0 12 6	0 9 0	0 6 6	0 7 6	0 12 6	0 9 0							
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5½	0 6 3	0 7 6	0 9 0	0 14 6	0 10 6	0 7 0	0 8 3	0 9 6	0 14 6	0 11 6	0 7 6	0 9 0	0 14 6	0 11 6	0 8 3	0 9 6	0 14 6	0 11 6	0 8 3	0 9 6	0 14 6	0 11 6							
6	0 7 0	0 8 3	0 9 6	0 15 9	0 12 3	0 8 6	0 9 9	0 11 6	0 15 9	0 12 3	0 8 6	0 9 9	0 15 9	0 12 3	0 8 6	0 9 9	0 15 9	0 12 3	0 8 6	0 9 9	0 15 9	0 12 3							
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7	0 8 6	0 9 9	0 11 6	0 17 6	0 14 6	0 10 6	0 12 0	0 13 6	0 17 6	0 14 6	0 11 0	0 12 9	0 14 6	0 15 6	0 11 0	0 12 9	0 14 6	0 15 6	0 11 0	0 12 9	0 14 6	0 15 6							
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8	0 10 6	0 12 0	0 13 6	1 0 0	0 16 6	0 12 0	0 14 0	0 15 6	1 0 0	0 16 6	0 13 0	0 14 6	0 16 6	1 0 0	0 17 0	0 14 6	0 16 6	1 0 0	0 17 0	0 14 6	0 16 6	1 0 0							
8½	0 11 0	0 12 9	0 14 6	1 0 0	0 17 0	0 13 6	0 15 3	0 17 0	1 0 0	0 17 0	0 14 6	0 16 3	0 17 0	1 0 0	0 18 0	0 15 6	0 17 0	1 0 0	0 18 0	0 15 6	0 17 0	1 0 0							
9	0 12 0	0 13 6	0 15 6	1 2 0	0 18 0	0 14 6	0 16 6	0 18 0	1 2 0	0 18 0	0 15 6	0 17 0	0 18 0	1 2 0	0 19 0	0 16 6	0 18 0	1 2 0	0 19 0	0 16 6	0 18 0	1 2 0							
9½	0 13 6	0 15 3	0 17 0	1 3 6	0 19 0	0 15 6	0 17 0	0 19 0	1 3 6	0 19 0	0 16 6	0 18 6	0 19 0	1 3 6	0 20 0	0 17 0	0 19 0	1 3 6	0 20 0	0 17 0	0 19 0	1 3 6							
10	0 15 0	0 17 0	0 19 0	1 5 6	0 20 6	0 17 0	0 18 6	0 20 6	1 5 6	0 20 6	0 18 0	0 19 6	0 21 0	1 5 6	0 21 0	0 18 0	0 20 6	1 5 6	0 21 0	0 18 0	0 20 6	1 5 6							
10½	0 16 6	0 18 6	0 20 6	1 8 6	0 21 6	0 18 0	0 19 6	0 21 6	1 8 6	0 21 6	0 19 0	0 20 6	0 22 0	1 8 6	0 22 0	0 19 0	0 21 6	1 8 6	0 22 0	0 19 0	0 21 6	1 8 6							
11	0 18 0	1 0 0	1 1 6	1 11 0	0 23 0	1 0 0	1 1 6	1 1 6	1 11 0	0 23 0	1 0 0	1 1 6	1 1 6	1 11 0	0 23 0	1 0 0	1 1 6	1 11 0	0 23 0	1 0 0	1 1 6	1 11 0							
11½	1 0 0	1 2 0	1 4 0	1 15 0	0 24 6	1 1 6	1 3 0	1 3 0	1 15 0	0 24 6	1 1 6	1 3 0	1 3 0	1 15 0	0 24 6	1 1 6	1 3 0	1 3 0	1 15 0	0 24 6	1 1 6	1 3 0							
12	1 1 6	1 4 0	1 6 6	2 0 0	0 26 0	1 3 0	1 5 0	1 5 0	2 0 0	0 26 0	1 3 0	1 5 0	1 5 0	2 0 0	0 26 0	1 3 0	1 5 0	1 5 0	2 0 0	0 26 0	1 3 0	1 5 0							
12½	1 3 0	1 5 6	1 8 0	2 2 0	0 27 6	1 5 0	1 7 0	1 7 0	2 2 0	0 27 6	1 5 0	1 7 0	1 7 0	2 2 0	0 27 6	1 5 0	1 7 0	1 7 0	2 2 0	0 27 6	1 5 0	1 7 0							
13	1 5 0	1 7 0	1 10 0	2 5 0	0 29 0	1 7 0	1 9 0	1 9 0	2 5 0	0 29 0	1 7 0	1 9 0	1 9 0	2 5 0	0 29 0	1 7 0	1 9 0	1 9 0	2 5 0	0 29 0	1 7 0	1 9 0							
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15	1 16 0	1 19 0	2 2 0	3 3 0	0 31 6	2 2 0	2 7 0	2 7 0	3 18 0	0 31 6	2 2 0	2 7 0	2 7 0	3 18 0	0 31 6	2 2 0	2 7 0	2 7 0	3 18 0	0 31 6	2 2 0	2 7 0							
16	2 3 0	2 7 0	3 0 0	3 18 0	0 32 6	3 0 0	2 15 0	2 15 0	4 14 0	0 32 6	3 0 0	2 15 0	2 15 0	4 14 0	0 32 6	3 0 0	2 15 0	2 15 0	4 14 0	0 32 6	3 0 0	2 15 0							
17	2 10 0	2 15 0	3 3 0	4 14 0	0 33 6	3 0 0	3 5 0	3 5 0	5 11 0	0 33 6	3 0 0	3 5 0	3 5 0	5 11 0	0 33 6	3 0 0	3 5 0	3 5 0	5 11 0	0 33 6	3 0 0	3 5 0							
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19	3 8 0	4 3 0	5 0 0	6 6 0	0 35 6	4 0 0	4 9 0	4 9 0	8 10 0	0 35 6	4 13 0	5 13 0	5 13 0	8 10 0	0 35 6	4 13 0	5 13 0	5 13 0	8 10 0	0 35 6	4 13 0	5 13 0							
20	4 1 0	4 9 0	5 1 0	8 10 0	0 36 6	4 19 0	5 15 0	5 15 0	9 12 0	0 36 6	5 6 0	6 15 0	6 15 0	9 12 0	0 36 6	5 6 0	6 15 0	6 15 0	9 12 0	0 36 6	5 6 0	6 15 0							
21	4 13 0	5 1 0	6 15 0	9 12 0	0 37 6	5 13 0	6 18 0	6 18 0	10 0 0	0 37 6	6 1 0	7 11 0	7 11 0	10 0 0	0 37 6	6 1 0	7 11 0	7 11 0	10 0 0	0 37 6	6 1 0	7 11 0							
22	5 6 0	6 15 0	7 6 0	11 0 0	0 38 6	6 8 0	7 12 0	7 12 0	11 0 0	0 38 6	7 0 0	8 6 0	8 6 0	11 0 0	0 38 6	7 0 0	8 6 0	8 6 0	11 0 0	0 38 6	7 0 0	8 6 0							
23	6 1 0	7 11 0	8 6 0	12 10 0	0 39 6	7 6 0	8 12 0	8 12 0	12 0 0	0 39 6	7 19 0	9 8 0	9 8 0	12 0 0	0 39 6	7 19 0	9 8 0	9 8 0	12 0 0	0 39 6	7 19 0	9 8 0							
24	7 0 0	8 6 0	9 8 0	13 14 0	0 40 6	8 6 0	9 12 0	9 12 0	14 2 0	0 40 6	8 12 0	9 8 0	9 8 0	14 2 0	0 40 6	8 12 0	9 8 0	9 8 0	14 2 0	0 40 6	8 12 0	9 8 0							

EXTRAS.

All above 24 inches 20/0 per inch extra.
Flat Files, double cut on the edge, to advance half inch.
Topping, square cut on the edge, advance half inch.
Mill Saw, 3 round edges, advance half inch.
Feather Edge and Knife Files to advance 8 inches.

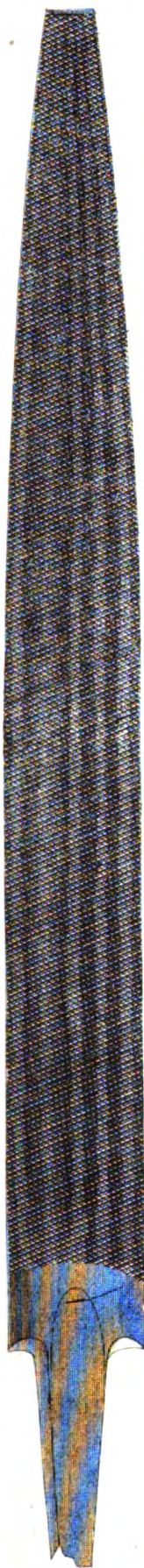
EXTRAS.

All above 24 inches, 20/0 per inch extra.
Pin Files and Tanged Horse Rasps to advance 1 inch.
Round-off with points, to advance 1 inch.
Needle, exceeding breadth of Hand Files, as Equalling cut on both edges
Equalling and Cotter Files, extra thin, to advance 1 inch.

EXTRAS.

All above 24 inches, 20/0 per inch extra.
Hand and Equalling, with round edges, advance 1 inch;
if double cut, 2 inches.
Two-tanged Mill Saws, 3 round edges, advance half inch.

641. HALF ROUND BASTARD 8 INCH.



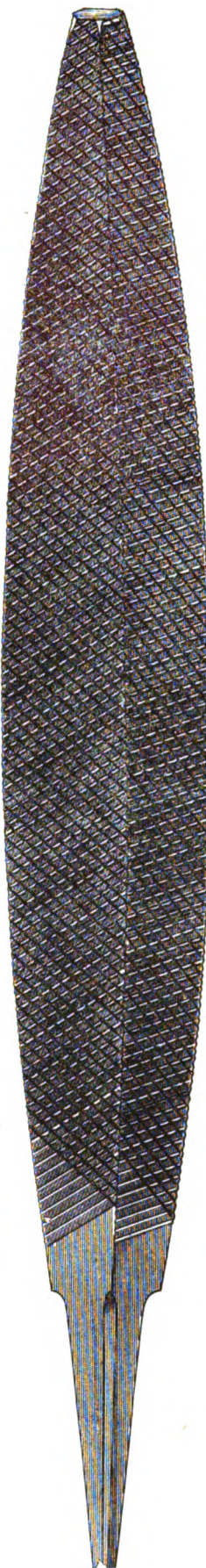
636. FLAT BASTARD 8 INCH



646. HAND SMOOTH



676. RUBBER FILE.



643. THREE SQUARE BASTARD.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

FILES AND RASPS.—Continued.

BEST REFINED CAST STEEL SAW FILES.									
TAPER SAW FILES.				FRAME SAW FILES AND GULLETING.		BLUNT, SEGMENT, SAW FILES, AND TAPER, CUT TO POINT		BLUNT, 2 ND CUT DOUBLE, AND BAND SAW 2 ND CUT SINGLE.	
Inches. 1 to 8 $\frac{1}{2}$	2 ND CUT SINGLE.	2 ND CUT DOUBLE.	SMOOTH SINGLE.	2 ND CUT SINGLE.	2 ND CUT DOUBLE.	2 ND CUT SINGLE.	2 ND CUT DOUBLE.	2 ND CUT SINGLE.	2 ND CUT DOUBLE.
	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.	Per Dozen.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1 to 8 $\frac{1}{2}$	0 4 0	0 4 9	0 5 6	0 4 9	0 5 9	0 5 0	0 5 0	0 6 6	0 6 6
4 $\frac{1}{2}$	0 4 6	0 5 3	0 6 0	0 5 3	0 6 3	0 5 6	0 5 6	0 7 6	0 7 6
5 $\frac{1}{2}$	0 5 0	0 6 0	0 6 3	0 5 9	0 6 9	0 6 6	0 6 6	0 8 6	0 8 6
6 $\frac{1}{2}$	0 5 6	0 6 6	0 7 0	0 6 6	0 7 6	0 7 6	0 7 6	0 9 6	0 9 6
7 $\frac{1}{2}$	0 6 6	0 7 6	0 8 0	0 7 6	0 8 6	0 8 6	0 8 6	0 10 6	0 10 6
8 $\frac{1}{2}$	0 7 6	0 8 6	0 9 0	0 8 6	0 9 6	0 9 6	0 9 6	0 12 0	0 12 0
9 $\frac{1}{2}$	0 8 6	0 9 6	0 10 0	0 9 6	0 10 6	0 10 6	0 10 6	0 13 6	0 13 6
10	0 9 6	0 10 6	0 11 0	0 10 6	0 12 0	0 12 0	0 12 0	0 15 6	0 15 6
11	0 10 6	0 11 0	0 12 0	0 11 0	0 13 0	0 13 0	0 13 0	0 16 0	0 16 0
12	0 11 0	0 12 0	0 13 0	0 12 0	0 14 0	0 14 0	0 14 0	0 17 6	0 17 6
13	0 12 0	0 13 0	0 14 0	0 13 0	0 15 0	0 15 0	0 15 0	0 19 6	0 19 6
14	0 13 0	0 14 0	0 15 0	0 14 0	0 16 0	0 16 0	0 16 0	0 20 6	0 20 6

REAPER KNIFE FILES.

Ins.	PLAIN AND SWAGED.		KNIFE SHAPE.		CANT SHAPE.	
	SINGLE.	DOUBLE.	SINGLE.	DOUBLE.	SINGLE.	DOUBLE.
	Per Doz.	Per Doz.	Per Doz.	Per Doz.	Per Doz.	Per Doz.
7	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
8	0 8 6	0 9 0	0 8 6	0 9 6	0 12 6	0 13 6
9	0 9 3	0 10 0	0 9 6	0 10 6	0 13 6	0 14 9
10	0 11 6	0 12 9	0 11 9	0 13 3	0 16 3	0 17 6
10	0 13 6	0 15 6	0 13 9	0 16 0	0 19 0	0 20 3

EXTRAS.

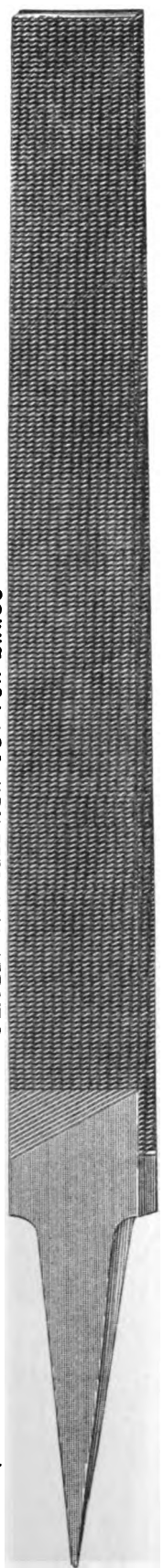
Taper Saw Files, Double Cut Smooth, to advance half inch on Single Smooth. Frame Equalising Saw Files, 3 inches on Frame Saw Price.

EXTRAS.

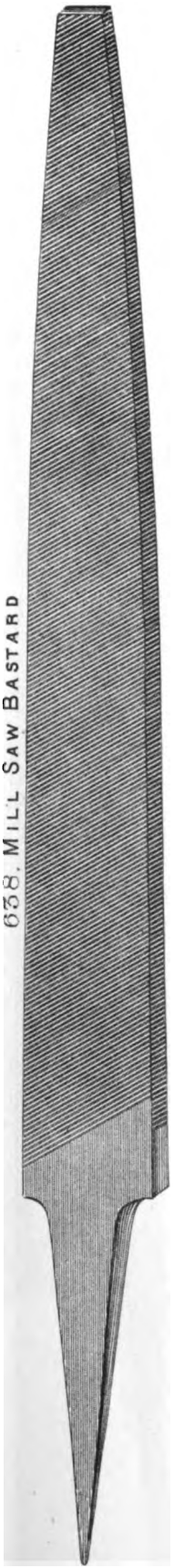
Babbers, Rough and Bastard	1/8 per lb.	
Do. Second Cut	1/5 "	
Do. Smooth	1/7 "	
1 lb. Rubber	1/8 per lb.	2 ND CUT. SMOOTH.
3 "	1/5 "	1/9 per lb. 1/10 per lb.
8 "	1/4 "	1/6 " 1/7 "
Strong Flat Files, & Half-thick, Rough & Bastard, 1/5 per lb.	1/5 "	1/6 "
" " Second Cut	1/7 "	1/7 "
" " Smooth	1/9 "	1/9 "
Three-square, 1d. per lb. extra to Flat Files.		
Horse Mouth Rasps, 5/0 each.		
Bread Rasps, handled, 80/0 per dozen.		
Single Improved Shoe Rasps, 4 in. on Flat Prices.		
Double	"	1 "
Lastmakers' Rasps to advance 2 inches.		
Saddle Tree Rasps to advance 3 inches.		
All Parallel Files to advance 1 inch on their respective descriptions.		
All quarter inches the price of the next size above.		
Round, Half-round, and Cross Files, Double Cut		
Second Cut, to advance 1/4 inch.		
Round, Half-round, and Cross Files, Double Cut		
Smooth, to advance 1 inch.		
Flat, Three-square, and Hand Files, Rough and		
Middle Cut, above 14 inches, 6d. per dozen		
extra to Bastard Cut.		
New Cut Files to advance 1 inch.		

EDWARD BROOKES.

646A. PARALELL NEW CUT FOR BRASS



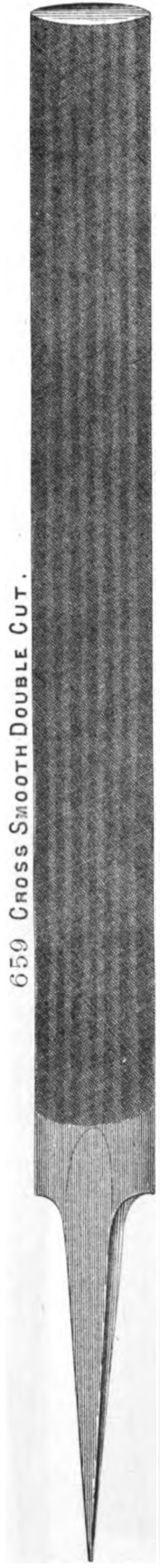
638. MILL SAW BASTARD



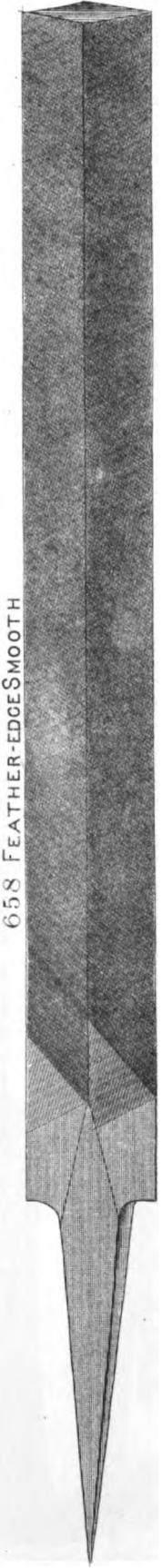
650. PILLAR SMOOTH FILE



659 CROSS SMOOTH DOUBLE CUT.



658 FEATHER-EDGE SMOOTH



657 CANT SECOND CUT



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

FILES AND RASPS.—Continued.

BEST REFINED CAST STEEL SAW FILES.

TAPER SAW FILES.				FRAME SAW FILES AND GULLETING.		BLUNT, SEGMENT, SAW FILES, AND TAPER, CUT TO POINT	BLUNT 2 nd CUT DOUBLE, AND BAND SAW 2 nd CUT SINGLE.
Inches. 1 to 3½	2 nd CUT SINGLE.	2 nd CUT DOUBLE.	8 ^{SMOOTH} SINGLE.	Per Dozen. £ s. d.	Per Dozen. £ s. d.	Per Dozen. £ s. d.	Per Dozen. £ s. d.
	Per Dozen.	Per Dozen.	Per Dozen.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
4	0 4 0	0 4 9	0 5 6	0 4 9	0 5 9	0 5 0	0 6 6
4½	0 4 6	0 5 3	0 6 0	0 5 3	0 6 3	0 5 6	0 7 6
5	0 5 0	0 6 0	0 6 8	0 6 0	0 7 0	0 6 6	0 8 6
5½	0 5 6	0 6 6	0 7 0	0 6 6	0 7 6	0 7 6	0 9 6
6	0 6 6	0 7 6	0 8 0	0 7 6	0 8 6	0 8 6	0 10 6
6½	0 7 6	0 8 6	0 9 0	0 8 6	0 9 6	0 9 6	0 12 0
7	0 8 6	0 9 6	0 10 0	0 9 6	0 10 6	0 10 6	0 13 6
7½	0 9 6	1 0 0	0 11 0	1 0 0	1 1 0	1 1 0	0 15 6
8	0 10 6	1 0 6	0 12 0	1 0 6	1 1 6	1 1 6	0 17 6
8½	0 12 0	1 1 6	0 13 6	1 1 6	1 2 6	1 2 6	1 1 6
9	0 13 6	1 2 0	0 14 6	1 2 0	1 3 0	1 3 0	1 4 0
9½	0 15 6	1 3 0	0 15 6	1 3 0	1 4 0	1 4 0	1 6 0
10	0 17 6	1 4 0	0 17 0	1 4 0	1 5 0	1 5 0	1 8 0
10½	0 19 6	1 5 0	0 19 6	1 5 0	1 6 0	1 6 0	1 9 0
11	1 4 0	1 6 0	1 6 0	1 6 0	1 7 0	1 7 0	2 0 0
12	1 9 0	1 11 0	1 11 0	1 10 0	1 12 0	1 12 0	2 0 0
13	1 14 0	1 17 0	1 17 0	1 16 0	1 19 0	1 19 0	2 0 0
14	2 0 0	2 3 0	2 3 0	2 3 0	2 6 0	2 6 0	2 0 0

REAPER KNIFE FILES.

PLAIN AND SWAGED.		KNIFE SHAPE.		CANT SHAPE.	
SINGLE.	DOUBLE.	SINGLE.	DOUBLE.	SINGLE.	DOUBLE.
Per Doz.	Per Doz.	Per Doz.	Per Doz.	Per Doz.	Per Doz.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
7	0 8 6	0 9 0	0 9 6	0 12 6	0 13 6
8	0 9 3	0 10 0	0 10 6	0 13 6	0 14 9
9	0 11 6	0 12 9	0 11 9	0 13 3	0 16 3
10	0 13 6	0 15 6	0 13 9	0 16 0	0 19 0

EXTRAS.

Taper Saw Files, Double Cut Smooth, to advance half inch on Single
Smooth. Frame Equalling Saw Files, 3 inches on Frame Saw Price.

EXTRAS.

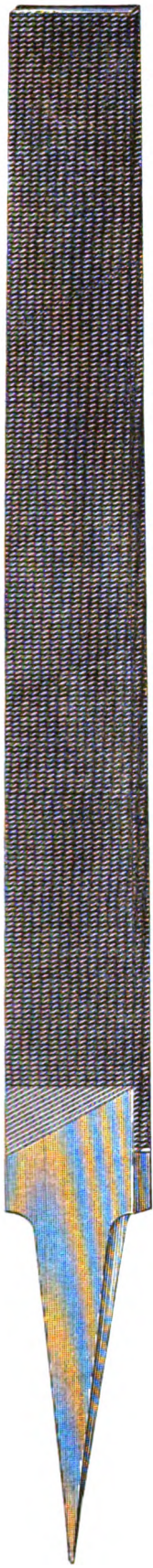
Rubbers, Rough and Bastard	1/8 per lb.
Do. Second Cut	1/5 "
Do. Smooth	1/7 "
1 lb. Rubber	2 nd CUT. SMOOTH.
2 "	BASTARD. 1/9 per lb. 1/10 per lb.
3 "	1/8 " 1/6 " 1/7 "
4 "	1/4 " 1/5 " 1/6 "
Strong Flat Files, & Half-thicks, Rough & Bastard, 1/5 per lb.	
" " " Second Cut	1/7 "
" " " Smooth	1/9 "
Three-square, 1d. per lb. extra to Flat Files.	

All quarter inches the price of the next size above.

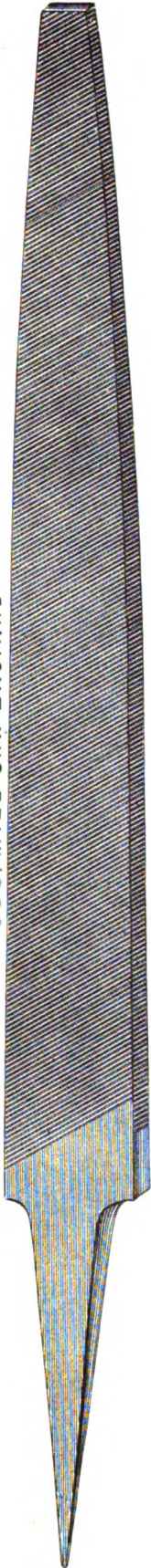
Round, Half-round, and Cross Files, Double Cut
Second Cut, to advance ¼ inch.
Round, Half-round, and Cross Files, Double Cut
Smooth, to advance 1 inch.
Flat, Three-square, and Hand Files, Rough and
Middle Cut, above 14 inches, 6d. per dozen
extra to Bastard Cut.
New Cut Files to advance 1 inch.

EDWARD BROOKES.

646A. PARALLEL NEW CUT FOR BRASS



658. MILL SAW BASTARD



650. PILLAR SMOOTH FILE



659. CROSS SMOOTH DOUBLE CUT.



658. FEATHER-EDGE SMOOTH



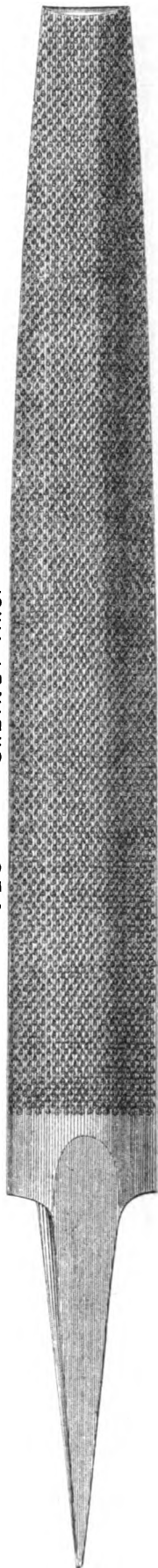
657. CANT SECOND CUT



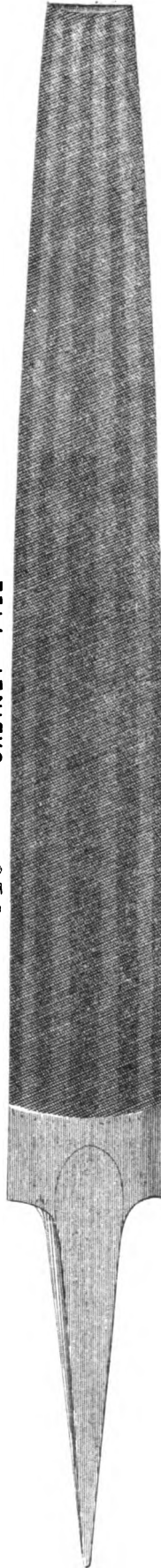
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

CABINET RASP 648



CABINET FILE 649



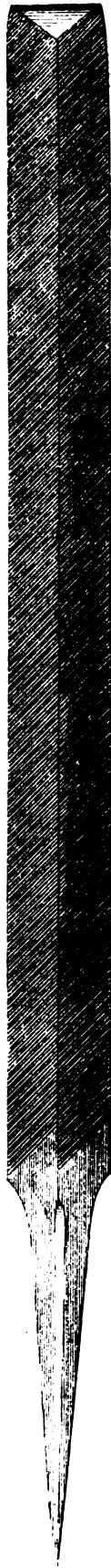
DOUBLE CUT FRAME SAW FILE 670



GULLET FILE 669



BLUNT SINGLE CUT HAND SAW FILE 668

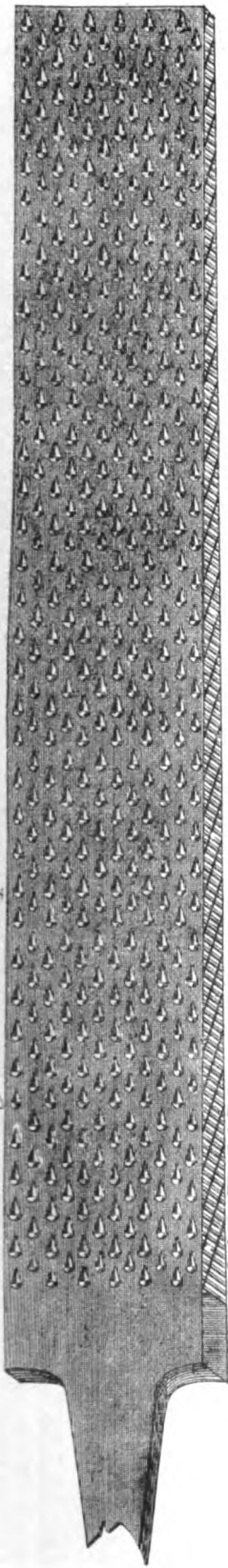


TAPER SAW FILE DOUBLE CUT 667 A

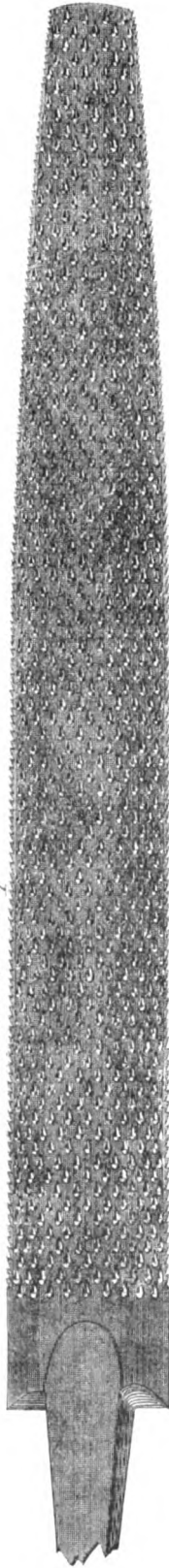


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

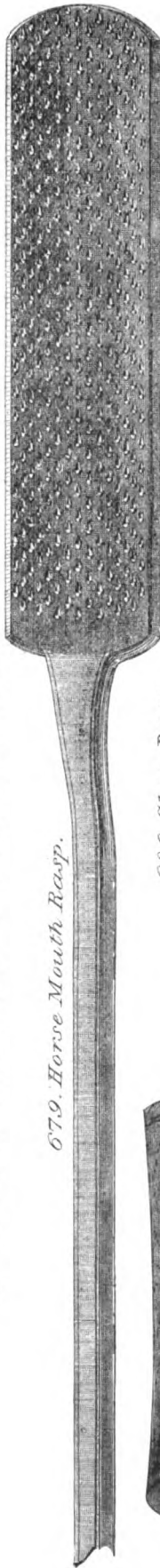
645. Tiaug'd Horse Rasp.



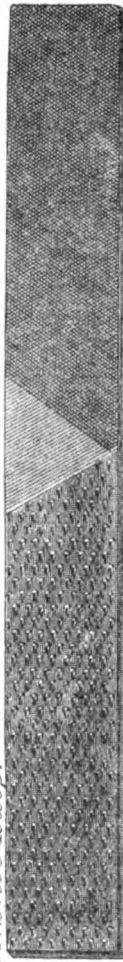
647. Half Round Wood Rasp.



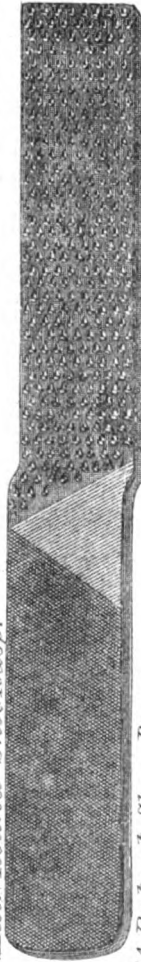
679. Horse Mouth Rasp.



680. Shoe Rasp.



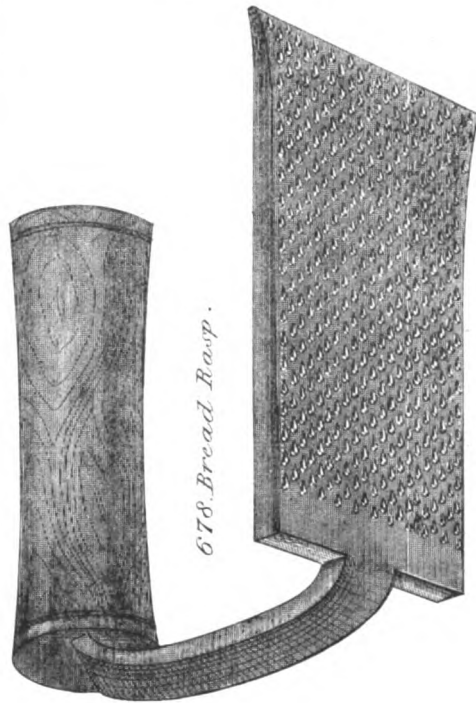
681. Half Round Shoe Rasp.



681A. Patent Shoe Rasp.



678. Broad Rasp.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

DIS- COUNT.	No.	COACH WRENCHES AND SPANNERS.																	
			6	7	8	9	10	11	12	13	14	15	16	17	18	inch.			
	20	Coach Wrenches.....	2/3	2/6	2/9	3/0	3/6	3/9	4/3	4/6	5/0	5/6	6/3	7/0	7/9	each.			
	21	Double Coach Wrenches	5/0	5/3	5/6	5/9	6/3	6/9	7/3	8/3	9/6	11/6	13/0	14/6	16/0	..			
	22	Best Double ditto	6/0	6/6	7/0	7/6	8/6	9/6	10/3	11/0	12/0	13/6	15/0	16/6	18/0	..			
	23	Improved Cylinder ditto	5/6	5/9	6/3	7/0	7/9	8/6	9/6	10/0	11/0	12/6	14/0	15/6	17/0	..			
	24	Best Double Railway ditto ..	8/0	9/0	9/6	10/0	11/0	11/9	12/6	13/6	14/6	15/0	17/6	19/0	21/0	..			
	25	Improved Rack	Length 4 5 6 8 10 12 15 18 21 24 27 30 inch.																
		Spanner	Span 1 1 1 1 1 2 2 2 3 3 4 4 5 ..																
			3/6 4/0 4/6 5/0 6/6 8/0 10/0 12/0 14/0 16/0 18/0 20/0 each.																
	26	Clyburn's Spanner..	Length 4 5 6 8 10 12 15 18 21 24 26 28 30 inch.																
		Span	Span 1 1 1 1 1 2 2 2 2 2 2 2 3 ..																
			5/0 5/6 6/0 7/0 8/6 10/6 12/6 14/0 16/6 18/6 21/0 24/0 27/0 each.																
	27	Budding's Spanner..	Length 4 5 6 8 10 12 14 16 18 20 22 24 26 28 30 inch.																
		Span.....	Span..... 1 1 1 1 1 2 2 2 2 2 3 3 4 ..																
			5/0 5/6 6/0 7/0 8/6 10/0 11/6 13/0 14/6 16/0 18/0 20/0 22/0 24/0 26/0 each.																
	28	Key Spanner	Length 8 10 12 14 16 18 21 24 27 30 inch.																
		Span	Span 1 1 1 2 2 2 3 3 4 4 ..																
			3/0 4/0 5/0 6/6 8/3 10/6 14/0 16/6 18/6 22/0 each.																
	29	Screw Key	Length 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 inch.																
		Span	Span 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 ..																
			1/4 1/6 1/9 2/0 2/3 2/6 2/9 3/0 3/3 3/6 3/9 4/0 4/3 4/6 4/9 5/0 5/6 each.																
		Ditto	Length.. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 in.																
		Span.....	Span..... 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 5 ..																
			6/0 6/6 7/0 7/6 8/6 9/0 9/6 10/0 10/6 11/0 11/6 12/0 13/0 14/0 14/6 15/0 ea.																
	30	Double End Screw	Length 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 in.																
		Key	Span... 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 ..																
			2/0 2/3 2/6 2/9 3/0 3/3 3/6 3/9 4/0 4/3 4/6 4/9 5/0 ea.																
		Continued	Length 10 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 in.																
		Span..	Span.. 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 ..																
			5/3 5/6 5/9 6/0 6/3 6/6 6/9 7/0 7/3 each.																
		Continued	Length 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 in.																
		Span..	Span.. 1 1/2 x 1 1/2 1 1/2 x 1 1/2 1 1/2 x 1 1/2 1 1/2 x 1 1/2 1 1/2 x 1 1/2 1 1/2 x 1 1/2 1 1/2 x 1 1/2 ..																
			7/6 7/9 8/0 8/3 8/6 8/9 9/0 9/3 9/6 9/9 ea.																
	31	Same Price	Length 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 in.																
		Span..	Span.. 2 1/2 x 2 1/2 2 1/2 x 2 1/2 2 1/2 x 2 1/2 2 1/2 x 2 1/2 2 1/2 x 2 1/2 2 1/2 x 2 1/2 2 1/2 x 2 1/2 ..																
			10/0 10/3 10/6 10/9 11/0 11/3 11/6 11/9 12/0 ea.																
		—As No. 30	Length 24 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 in.																
		Span..	Span.. 2 3/4 x 3 2 3/4 x 3 2 3/4 x 3 2 3/4 x 3 2 3/4 x 3 2 3/4 x 3 2 3/4 x 3 ..																
			12/3 12/6 12/9 13/0 13/6 14/0 14/6 15/0 15/6 16/0 ea.																
		Continued	Length.... 29 30 31 32 33 36 inch.																
		Span.....	Span..... 3 3/4 x 3 3/4 3 3/4 x 3 3/4 3 3/4 x 3 3/4 3 3/4 x 3 3/4 3 3/4 x 3 3/4 3 3/4 x 3 3/4 ..																
			16/6 17/0 17/6 18/0 19/0 20/0 each.																

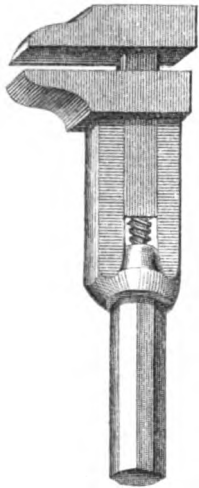
MALLEABLE IRON SPANNERS.

SIZE OF SINGLE-END SPANNERS, SAME PATTERN AS No. 29.										No. 9 14½ x 1½										No. 19 27½ x 2½																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
No.	1	5½	x	1½	10	15½	..	1½	20	28½	..	3	30	..	3½	32	..	3½	33½	..	3½	36	..	4	37½	..	4½	38½	..	4½	39½	..	4½	41	..	5	42	..	5	43	..	5	44	..	5	45	..	5	46	..	5	47	..	5	48	..	5	49	..	5	50	..	5	51	..	5	52	..	5	53	..	5	54	..	5	55	..	5	56	..	5	57	..	5	58	..	5	59	..	5	60	..	5	61	..	5	62	..	5	63	..	5	64	..	5	65	..	5	66	..	5	67	..	5	68	..	5	69	..	5	70	..	5	71	..	5	72	..	5	73	..	5	74	..	5	75	..	5	76	..	5	77	..	5	78	..	5	79	..	5	80	..	5	81	..	5	82	..	5	83	..	5	84	..	5	85	..	5	86	..	5	87	..	5	88	..	5	89	..	5	90	..	5	91	..	5	92	..	5	93	..	5	94	..	5	95	..	5	96	..	5	97	..	5	98	..	5	99	..	5	100	..	5	101	..	5	102	..	5	103	..	5	104	..	5	105	..	5	106	..	5	107	..	5	108	..	5	109	..	5	110	..	5	111	..	5	112	..	5	113	..	5	114	..	5	115	..	5	116	..	5	117	..	5	118	..	5	119	..	5	120	..	5	121	..	5	122	..	5	123	..	5	124	..	5	125	..	5	126	..	5	127	..	5	128	..	5	129	..	5	130	..	5	131	..	5	132	..	5	133	..	5	134	..	5	135	..	5	136	..	5	137	..	5	138	..	5	139	..	5	140	..	5	141	..	5	142	..	5	143	..	5	144	..	5	145	..	5	146	..	5	147	..	5	148	..	5	149	..	5	150	..	5	151	..	5	152	..	5	153	..	5	154	..	5	155	..	5	156	..	5	157	..	5	158	..	5	159	..	5	160	..	5	161	..	5	162	..	5	163	..	5	164	..	5	165	..	5	166	..	5	167	..	5	168	..	5	169	..	5	170	..	5	171	..	5	172	..	5	173	..	5	174	..	5	175	..	5	176	..	5	177	..	5	178	..	5	179	..	5	180	..	5	181	..	5	182	..	5	183	..	5	184	..	5	185	..	5	186	..	5	187	..	5	188	..	5	189	..	5	190	..	5	191	..	5	192	..	5	193	..	5	194	..	5	195	..	5	196	..	5	197	..	5	198	..	5	199	..	5	200	..	5	201	..	5	202	..	5	203	..	5	204	..	5	205	..	5	206	..	5	207	..	5	208	..	5	209	..	5	210	..	5	211	..	5	212	..	5	213	..	5	214	..	5	215	..	5	216	..	5	217	..	5	218	..	5	219	..	5	220	..	5	221	..	5	222	..	5	223	..	5	224	..	5	225	..	5	226	..	5	227	..	5	228	..	5	229	..	5	230	..	5	231	..	5	232	..	5	233	..	5	234	..	5	235	..	5	236	..	5	237	..	5	238	..	5	239	..	5	240	..	5	241	..	5	242	..	5	243	..	5	244	..	5	245	..	5	246	..	5	247	..	5	248	..	5	249	..	5	250	..	5	251	..	5	252	..	5	253	..	5	254	..	5	255	..	5	256	..	5	257	..	5	258	..	5	259	..	5	260	..	5	261	..	5	262	..	5	263	..	5	264	..	5	265	..	5	266	..	5	267	..	5	268	..	5	269	..	5	270	..	5	271	..	5	272	..	5	273	..	5	274	..	5	275	..	5	276	..	5	277	..	5	278	..	5	279	..	5	280	..	5	281	..	5	282	..	5	283	..	5	284	..	5	285	..	5	286	..	5	287	..	5	288	..	5	289	..	5	290	..	5	291	..	5	292	..	5	293	..	5	294	..	5	295	..	5	296	..	5	297	..	5	298	..	5	299	..	5	300	..	5	301	..	5	302	..	5	303	..	5	304	..	5	305	..	5	306	..	5	307	..	5	308	..	5	309	..	5	310	..	5	311	..	5	312	..	5	313	..	5	314	..	5	315	..	5	316	..	5	317	..	5	318	..	5	319	..	5	320	..	5	321	..	5	322	..	5	323	..	5	324	..	5	325	..	5	326	..	5	327	..	5	328	..	5	329	..	5	330	..	5	331	..	5	332	..	5	333	..	5	334	..	5	335	..	5	336	..	5	337	..	5	338	..	5	339	..	5	340	..	5	341	..	5	342	..	5	343	..	5	344	..	5	345	..	5	346	..	5	347	..	5	348	..	5	349	..	5	350	..	5	351	..	5	352	..	5	353	..	5	

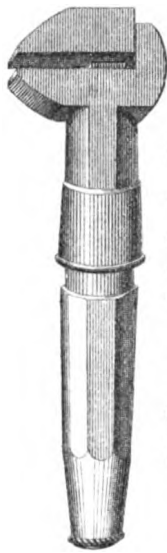
All Sizes 0/7 per lb., Rough Castings; all Sizes 0,9 per lb., Bright Ends.

SIZE OF DOUBLE-END SPANNERS, SAME PATTERN AS No. 30 OR 31.										No. 7 11 1/2 x 1 1/8 x 1 1/2										No. 15 20 x 2 1/2 x 2 1/2																																			
No.	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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	0	1	2	3	4	5	6				8	9	10	11	12	13	14				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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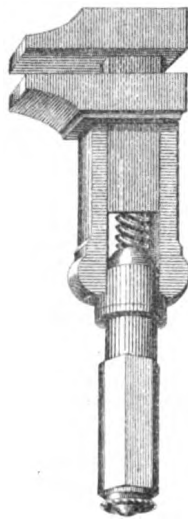
EDWARD BROOKES.



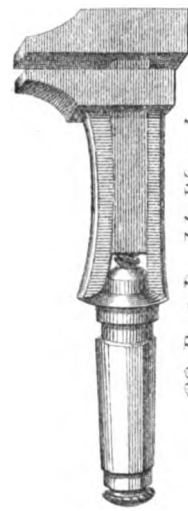
21. Double Coach Wrench.



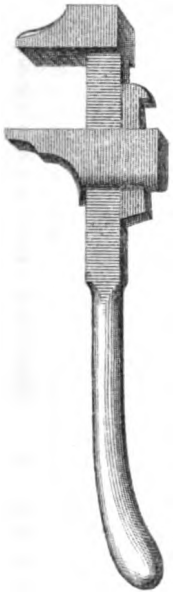
23. Improved Cylinder Wrench.



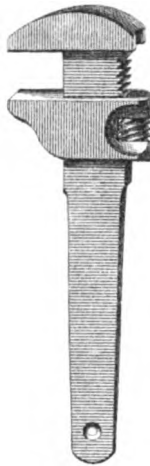
24. Best Double Railway Wrench.



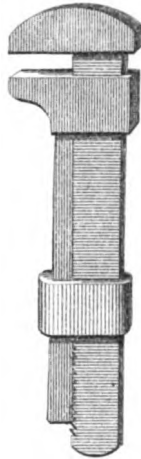
22. Best Double Wrench.



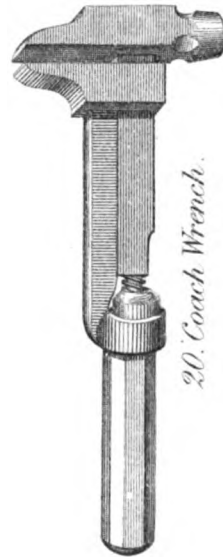
28. Key Spanner.



27. Budding's Spanner.



25. Improved Rack-Spanner.



20. Coach Wrench.



31. Screw Key.



29. Screw Key.



30. Screw Key.



26. Clyburn's Spanner.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

BEST SCREW STOCKS, DIES, AND TAPS, WHITWORTH'S STANDARD THREAD, FOR ENGINEERS' USE.

DIS- COUNT.	No.	TO SCREW. Inches.	With Taper & Plug Tap to each size. Per Set.	With Taper, Second, and Plug Tap to each size. Per Set.	With Taper, Second, Plug and Master Tap to each size. Per Set.	TO SCREW. Inches.	With Taper & Plug Tap to each size. Per Set.	With Taper, Second, and Plug Tap to each size. Per Set.	With Taper, Second, Plug and Master Tap to each size. Per Set.
	32 and 33		£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
		$\frac{1}{8}$	1 0 0	1 4 0	1 9 0	$\frac{1}{8}$ 1 $\frac{1}{8}$	3 4 0	4 2 0	5 3 0
		$\frac{3}{16}$	1 5 0	1 10 0	1 17 0	$\frac{3}{16}$ 1 $\frac{1}{8}$	3 16 0	4 18 0	6 5 0
		$\frac{1}{4}$	1 10 0	1 17 0	2 5 0	$\frac{1}{4}$ 1 $\frac{1}{8}$	4 8 0	5 14 0	7 4 0
		$\frac{5}{16}$	1 15 0	2 3 0	2 14 0	$\frac{5}{16}$ 1 $\frac{1}{8}$	3 4 0	4 2 0	5 3 0
		$\frac{3}{8}$	1 17 0	2 5 0	2 15 0	$\frac{3}{8}$ 1 $\frac{1}{8}$	3 4 0	4 3 0	5 5 0
		$\frac{7}{16}$	1 9 0	1 15 0	2 8 0	$\frac{7}{16}$ 1 $\frac{1}{8}$	3 6 0	4 6 0	5 10 0
		$\frac{1}{2}$	1 10 0	1 17 0	2 5 0	$\frac{1}{2}$ 1 $\frac{1}{8}$	3 17 0	5 0 0	6 7 0
		$\frac{9}{16}$	1 17 0	2 5 0	2 15 0	$\frac{9}{16}$ 1 $\frac{1}{8}$	3 19 0	5 4 0	6 14 0
		$\frac{5}{8}$	1 18 0	2 7 0	2 18 0	$\frac{5}{8}$ 1 $\frac{1}{8}$	4 12 6	6 2 0	7 18 0
		$\frac{3}{4}$	2 6 0	2 16 0	3 9 0	$\frac{3}{4}$ 1 $\frac{1}{8}$	5 0 0	6 9 0	8 4 0
		$\frac{7}{8}$	1 12 6	2 1 0	2 11 0	$\frac{7}{8}$ 1 $\frac{1}{8}$	4 8 0	5 11 0	6 19 0
		1	1 19 0	2 9 0	3 1 0	1 $\frac{1}{8}$ 1 $\frac{1}{8}$	4 14 0	6 1 0	7 13 0
		$\frac{1}{8}$	2 0 0	2 10 0	3 3 0	1 $\frac{1}{8}$ 1 $\frac{1}{8}$	5 6 0	6 16 0	8 12 0
		$\frac{3}{16}$	2 3 0	2 14 0	3 9 0	1 $\frac{3}{16}$ 1 $\frac{1}{8}$	5 13 0	7 6 0	9 6 0
		$\frac{1}{4}$	2 8 0	2 19 0	3 14 0	1 $\frac{1}{4}$ 1 $\frac{1}{8}$	6 12 0	8 11 0	10 18 0
		$\frac{5}{16}$	2 16 0	3 10 0	4 7 0	1 $\frac{5}{16}$ 1 $\frac{1}{8}$	6 10 0	8 4 0	10 1 0
		$\frac{3}{8}$	2 0 0	2 10 0	3 3 0	1 $\frac{3}{8}$ 1 $\frac{1}{8}$	6 19 0	8 18 0	11 1 0
		$\frac{7}{16}$	2 8 0	3 0 0	3 16 0	1 $\frac{7}{16}$ 1 $\frac{1}{8}$	7 16 0	9 16 0	12 0 0
		$\frac{1}{2}$	2 13 0	3 8 0	4 6 0	1 $\frac{1}{2}$ 1 $\frac{1}{8}$	8 3 0	10 12 0	13 5 0
		$\frac{9}{16}$	2 16 0	3 11 0	4 9 0	1 $\frac{9}{16}$ 1 $\frac{1}{8}$	9 6 0	12 8 0	15 5 0
		$\frac{5}{8}$	2 7 0	3 0 0	3 15 0	1 $\frac{5}{8}$ 1 $\frac{1}{8}$	8 0 0	9 19 0	12 2 0
		$\frac{3}{4}$	2 16 0	3 11 0	4 10 0	1 $\frac{3}{4}$ 1 $\frac{1}{8}$	8 10 0	10 16 0	13 6 0
		$\frac{7}{8}$	3 1 0	3 19 0	5 1 0	1 $\frac{7}{8}$ 1 $\frac{1}{8}$	9 3 0	11 15 0	14 12 0
		1	3 7 0	4 4 0	5 5 0	1 1 $\frac{1}{8}$ 1 $\frac{1}{8}$	10 4 0	12 18 0	15 17 0
		$\frac{1}{8}$	2 16 0	3 9 0	4 6 0	1 $\frac{1}{8}$ 1 $\frac{1}{8}$	10 10 0	13 15 0	17 6 0
		$\frac{3}{16}$	2 16 0	3 11 0	4 9 0	1 $\frac{3}{16}$ 1 $\frac{1}{8}$	11 10 0	15 6 0	19 9 0
		$\frac{1}{4}$	3 7 0	4 3 0	5 2 0	1 $\frac{1}{4}$ 1 $\frac{1}{8}$	10 0 0	13 2 0	16 10 0
		$\frac{5}{16}$	3 7 0	4 5 0	5 8 0	1 $\frac{5}{16}$ 1 $\frac{1}{8}$	13 15 0	18 5 0	23 0 0
		$\frac{3}{8}$	3 12 0	4 13 0	5 18 0	1 $\frac{3}{8}$ 1 $\frac{1}{8}$	12 0 0	16 3 0	20 10 0
		$\frac{7}{16}$	3 17 0	4 18 0	6 3 0	1 $\frac{7}{16}$ 1 $\frac{1}{8}$	16 5 0	22 4 0	28 10 0

35 BEST GAS SCREW STOCKS, DIES, AND TAPS.—For Brass or Copper Tube, with Taper and Plug Taps to each size.

$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$	$\frac{3}{16}$ $\frac{3}{16}$ $\frac{3}{16}$	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	$\frac{5}{16}$ $\frac{5}{16}$ $\frac{5}{16}$	$\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$	$\frac{7}{16}$ $\frac{7}{16}$ $\frac{7}{16}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{5}{8}$ $\frac{5}{8}$ $\frac{5}{8}$	1 inch.
25/6	25/6	29/0	33/0	44/0	50/0	60/0	per Set.	

36 DOUBLE HAND SCREW PLATES AND TAPER TAPS.

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 inch.
12/0	14/0	17/6	21/0	26/0	33/0 each.

37 CLOCK SCREW PLATES AND TAPS.

6	7	8	9	10	11	12	13	14	15	16 sizes.
30 0	37 0	45 0	52 0	60 0	67 0	80 0	96 0	111 0	125 0	141 0 per doz.

38 CLOCK SCREW PLATES, NOTCHED, AND TAPS.

48 0	58 0	69 0	79 0	90 0	102 0	116 0	135 0	153 0	168 0	189 0 per doz.
If Bright, 7 6 per dozen extra.										

TAP WRENCHES.—For Engineers' Taps.

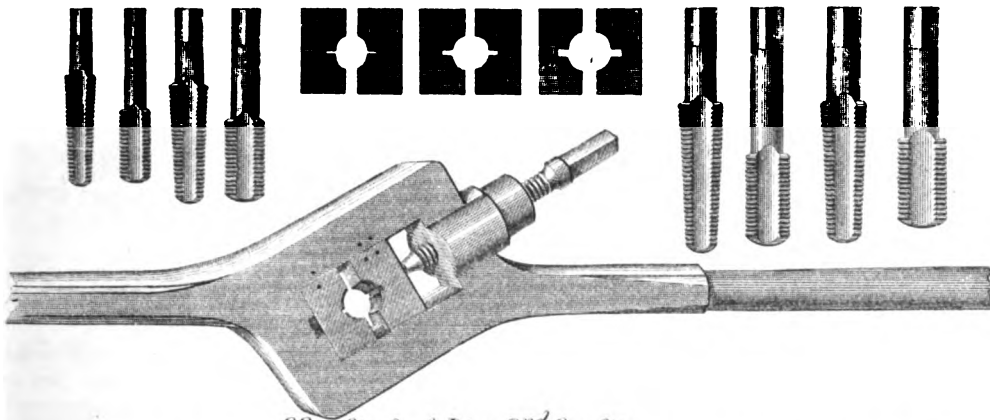
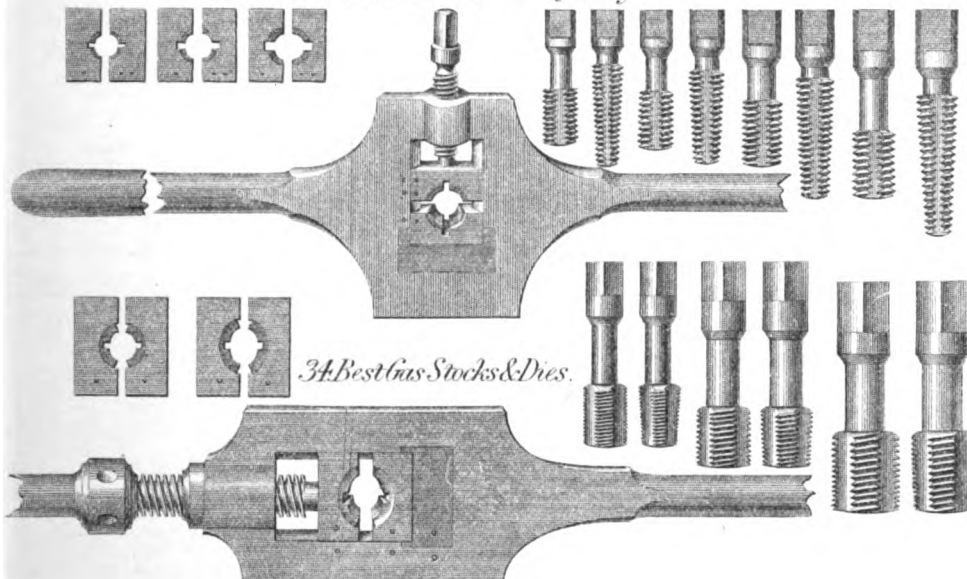
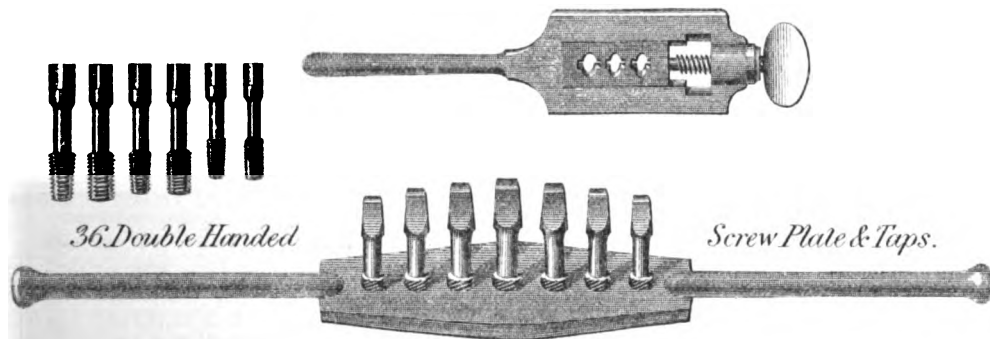
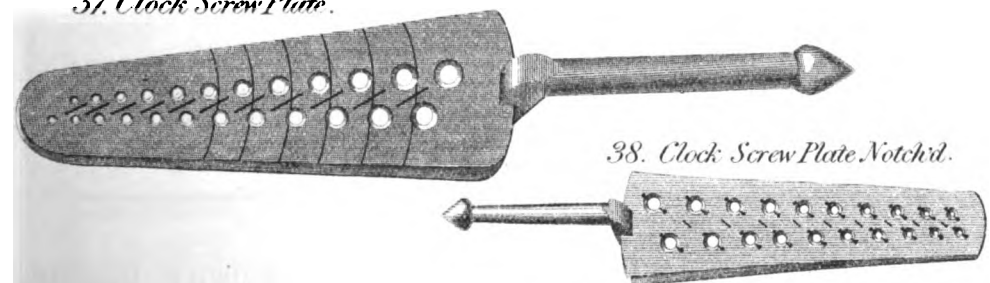
$\frac{3}{8}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$	$\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$	$\frac{3}{4}$ $\frac{7}{8}$ $\frac{1}{2}$	$\frac{7}{8}$ $\frac{1}{2}$ $\frac{3}{4}$	$\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	1 $\frac{1}{2}$ 2 inch.
3/0	4/0	5/0	6/0	7/0	8/0	9/0	11/0	14/0	18/0	22/0 each.

For Gas Taps, Iron Tube.

$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$	$\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$	$\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2 $\frac{1}{2}$ 2 $\frac{1}{2}$ inch.
6/0	8/0	10/0	12/0	15/0	19/0	28/0	36/0	each.		

SEE ENGRAVINGS, PAGE 75.

EDWARD BROOKES.

*33. Stocks & Dies 2nd Quality.**34. Best Gas Stocks & Dies.**35. Best Stocks & Dies for Iron or Brass Tube.**36. Double Handed**Screw Plate & Taps.**37. Clock Screw Plate.**38. Clock Screw Plate Notch'd.*

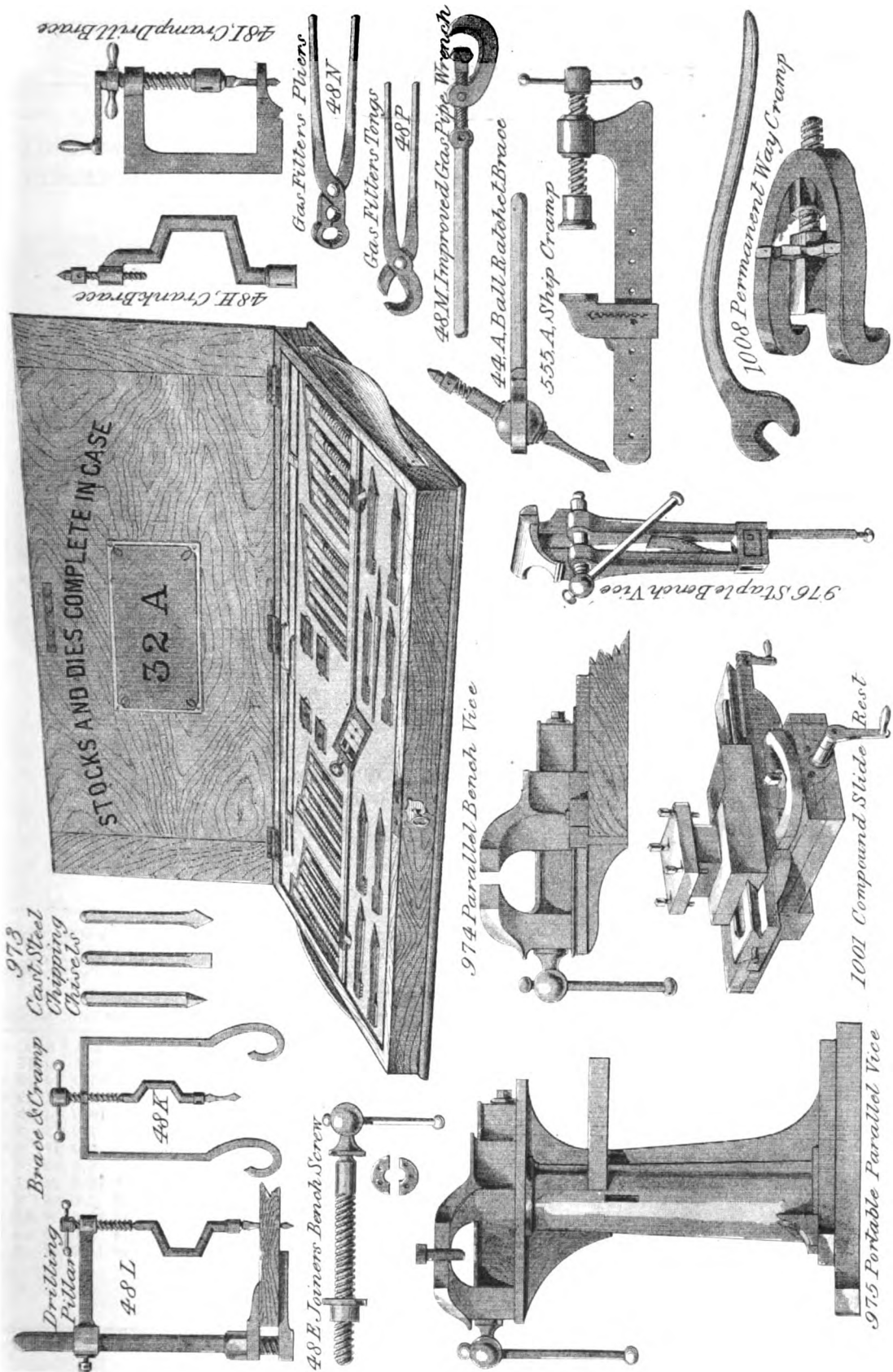
THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

DIS-COUNT.	No.	
	32A	BEST SCREW STOCKS, No. 32a, FITTED IN OAK CASE, With 4 pairs of Dies, 4 Taper, 4 Second, 4 Plug, and 4 Master Taps: Tap Wrenches, Internal and External Screw Tools, Tommies, and Turnscrows. A 1 SET, COMPLETE IN FIVE CASES, £53. $\frac{1}{2}$ 3-16 $\frac{1}{2}$ 5-16 $\frac{3}{4}$ 7-16 $\frac{1}{2}$ 9-16 $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 80/0 100/0 160/0 260/0 460/0 per set. A 2 SET, COMPLETE IN FOUR CASES, £42 18s. 3-16 $\frac{1}{2}$ 5-16 $\frac{3}{4}$ 7-16 $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 90/0 118/0 200/0 450/0 per set. A 3 SET, COMPLETE IN FOUR CASES, £44 9s. $\frac{1}{2}$ 5-16 $\frac{3}{4}$ 7-16 $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 88/0 130/0 238/0 440/0 per set. A 4 SET, COMPLETE IN FOUR CASES, £48 12s. 5-16 $\frac{3}{4}$ 7-16 $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 92/0 160/0 260/0 460/0 per set. A 5 SET, COMPLETE IN THREE CASES, £33 10s. $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 98/0 188/0 340/0 per set. A 6 SET, COMPLETE IN THREE CASES, £38 8s. $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 118/0 200/0 450/0 per set.
	44A	10 12 14 16 18 20 22 24 27 30 inches. Ball Ratchet Brace..... 20/0 22/0 24/0 26/0 28/0 30/0 33/0 36/0 40/0 45/0 each.
	48E	Joiners' Bench Screws and Nuts Length.. 15 18 20 21 22 24 inches. Diameter 1 $1\frac{1}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$.. Price.... 8/6 10/6 12/0 15/0 16/6 24/0 each.
		Beechwood Joiners' Bench Screws and Nuts, diameter, $2\frac{1}{2}$ $2\frac{3}{4}$ 3 inches. Size 1 2
	48H	Strong Crank Brace, with Screw 10/6 16/0 each. without Screw .. 8/6 10/0 ..
	48I	Cramp Drill Brace, 30 0 each.
	48K	Brace Cramp, for Iron Pipe..... With Brace. Without Brace. For 2 to 4 in. pipe 30/0 21/0 each. For 4 to 6 in. pipe 37/6 28/6 ..
	48L	Drilling Pillar, with Cast Arm and Foot, 30 0; all Wrought Iron, 40 0 each, without Brace. Wrought Iron, and with Sliding Arm, and Screw Fasteners to Foot, 60 0 each.
	48M	Improved Gas Pipe Wrench, for $\frac{1}{2}$ to $1\frac{1}{2}$ inch, 13/0; $\frac{1}{2}$ to 2 inch, 16 0 each; for Iron Pipe.
	48R	Gas Pipe Wrench, with 3 Loose Jaws, for Iron Pipe.... $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 inches. 7/0 9/0 12/0 each.
	48N	Gasfitters' Pliers..... 6 7 8 9 10 11 12 14 inches. 14/0 16/0 17/0 21/0 25/0 29/0 33/0 37/0 per doz.
		Improved " with Joint Cutter, 32/0 46/0 60/0 per doz. Burner Pliers, 2 Holes, 6 inch, 20/0; 7 inch, 27/0 per doz.
	48P	Gasfitters' Tongs, for Iron Pipe.. $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ 2 in. diam. 11/0 16/0 20/0 24/0 28/0 34/0 42/0 50/0 58/0 per doz.
		" Strong " for Gas Sockets 22/0 28/0 34/0 40/0 46/0 54/0 60/0 ..
555A		Ship Cramps, Strong, 9d. per lb.
973		Cast Steel Chipping Chisels, Flat, Half-round, Cross-cut, and Diamond Point, 1 lb. and upwards, 1/0 per lb.
		4 5 6 8 10 12 14 16 oz. each. Cast Steel Chipping Chisels.. 7/0 7/0 7/0 8/0 9/0 10/0 11/0 12/0 per doz.
		3 $3\frac{1}{2}$ 4 $4\frac{1}{2}$ 5 6 7 8 9 in. Jaws.
974		Parallel Bench Vice, Cast Iron, Steel Jaws, 45/0 50/0 55/0 60/0 65/0 75/0 95/0 110/0 130/0 each.
974M		Wrought Iron 36/0 45/0 56/0 68/0 86/0 106/0 128/0 ..
975		Portable Parallel Vice 120/0 135/0 150/0
976		Best Black Staple Bench Vice, with Solid Box, 42/0 per cwt.
977		" Bright 48/0
1001		Compound Slide Rest (see price, with Turning and Screw-cutting Lathes).
1008		Permanent Railway Cramp, or Jim Crow, and Spanner.....No. 1 2 3 4 Diameter of Screw .. 2 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{3}{4}$ in. To Bend Steel Rails.. 20 40 65 90 lb. Price .....0/8 0/8 0/8 0/9 pr.lb.

For Illustrations, see page 77.

EDWARD BROOKES.

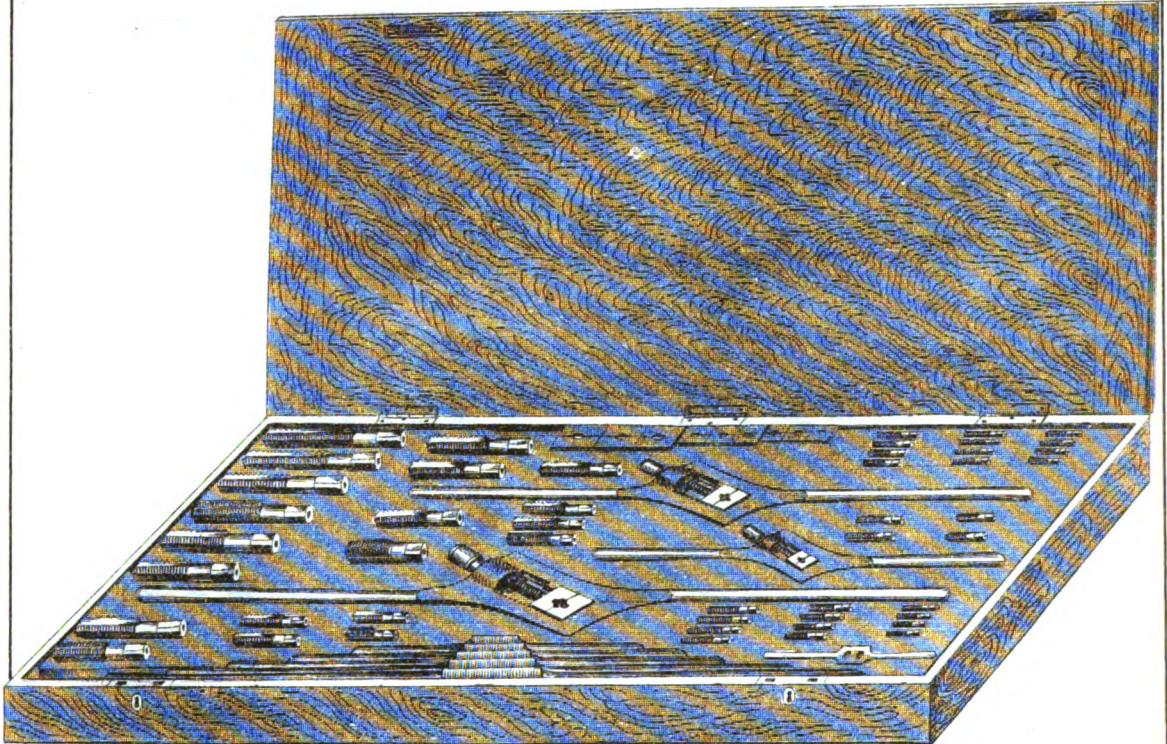


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

BEST SCREW STOCKS, DIES, TAPS, AND TAP WRENCHES, WHITWORTH'S STANDARD THREAD, FOR ENGINEERS' USE, FITTED INTO OAK OR POLISHED DEAL CASES.



No. 32b.

DISCOUNT.	No.	Inches.	Fitted into	TO SCREW.		With Taper and Plug Tap to each size, and Tap Wrenches.		With Taper, Second, and Plug Tap to each size, and Tap Wrenches.		With Taper, Second, Plug, and Master Tap to each size, and Tap Wrenches.	
				1 Case.	2 ..	Deal Case.	Oak Case.	Deal Case.	Oak Case.	Deal Case.	Oak Case.
	32B	1/8	1	1	1	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
		1/4	1	1	1	6 14 0	7 3 0	7 18 0	8 8 0	9 6 0	9 17 0
		3/8	1	1	1	6 19 0	7 8 0	8 4 0	8 14 0	9 15 0	10 6 0
		1/2	1	1	1	8 2 0	8 11 0	9 11 0	10 1 0	11 8 0	11 19 0
		5/8	1	1	1	9 13 0	10 6 0	11 11 0	12 5 0	13 18 0	14 13 0
		3/4	1	1	1	9 18 0	10 11 0	11 18 0	12 12 0	14 7 0	15 2 0
		7/8	1	1	1	11 8 0	12 1 0	13 12 0	14 6 0	16 7 0	17 2 0
		1	1	1	1	14 12 0	15 8 0	17 14 0	18 11 0	21 6 0	22 4 0
		1 1/8	1	1	1	14 17 0	15 13 0	17 19 0	18 16 0	21 13 0	22 11 0
		1 1/4	1	1	1	16 1 0	16 17 0	19 7 0	20 4 0	23 7 0	24 5 0
		1 1/2	1	2	2	24 2 0	25 14 0	29 4 0	30 18 0	34 19 0	36 15 0
		1 3/4	1	2	2	29 18 0	31 6 0	36 10 0	38 0 0	44 2 0	45 14 0
		2	1	2	2	31 2 0	31 10 0	37 18 0	39 8 0	45 15 0	47 7 0

Any other ranges of sizes made to order.

EDWARD BROOKES,

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

ENGINEERS' TOOLS.—Continued.

BEST GAS STOCKS, DIES, AND TAPS, FOR IRON TUBES.—Either as Pattern, No. 34 or 32.

DE- COUNT.	No.	TO SCREW.	With Taper and Plug Taps to each size.	TO SCREW.	With Taper and Plug Taps to each size.	TO SCREW.	With Taper and Plug Taps to each size.
		Inches.	£ s. d.	Inches.	£ s. d.	Inches.	£ s. d.
	34 or 32	1 1/2	0 17 6	1 1/2	3 17 0	1 1/2 1 1/2 2 .. .	8 14 0
		1 1/2	1 1 0	1 1/2	3 17 0	1 1/2 1 1/2 2 .. .	9 5 0
		1 1/2	1 7 0	1 1/2	4 10 0	1 1/2 1 1/2 2 .. .	9 15 0
		1 1/2 only	1 4 0	1 1/2 only	2 16 0	2 1/2 only	6 5 0
		1 1/2	1 11 0	1 1/2	3 8 0	2 1/2	8 14 0
		1 1/2	1 18 0	1 1/2	4 4 0	1 1/2 2 1/2	10 10 0
		1 1/2	2 6 6	1 1/2	5 0 0	1 1/2 2 1/2	11 1 0
		1 1/2 only	1 12 0	1 1/2	5 15 0	1 1/2 1 1/2 2 1/2 .. .	12 8 0
		1 1/2	1 19 0	1 1/2	5 18 0	1 1/2 1 1/2 2 1/2 .. .	13 3 0
		1 1/2	2 7 0	1 1/2 only	4 6 0	2 1/2 only	8 5 0
		1 1/2	2 18 0	1 1/2 1 1/2	5 13 0	2 1/2 2 1/2	11 5 0
		1 1/2 only	1 16 0	1 1/2 1 1/2	6 10 0	1 1/2 2	12 7 0
		1 1/2	2 6 0	1 1/2 1 1/2 1 1/2 .. .	7 7 0	2 2 1/2 2 1/2	14 0 0
		1 1/2	2 16 0	1 1/2 1 1/2 1 1/2 1 1/2 .. .	8 7 0	1 1/2 2 2 1/2 2 1/2 .. .	16 6 0
		1 1/2	2 16 0	1 1/2 only	4 14 0	8 only	12 16 0
		1 1/2	3 4 0	1 1/2 1 1/2	6 4 6	2 1/2 8	17 5 0
		1 1/2	3 4 0	1 1/2 1 1/2 1 1/2 .. .	7 5 0	2 2 1/2 3	20 4 0
		1 1/2	3 15 0	1 1/2 1 1/2 1 1/2 1 1/2 .. .	8 14 0	2 1/2 3 3	21 0 0
		1 1/2 only	2 1 0	2 only	5 0 0	2 1/2 3 3	22 10 0
		2 1	2 12 0	1 1/2 2	6 10 0	2 2 1/2 3 3	24 11 0
		2 1	3 8 0	1 1/2 1 1/2 2	8 0 0	2 1/2 2 1/2 3 3 .. .	27 0 0

See Engravings, Page 75.

TAPS, FOR BRASS GAS TUBE.—Taper or Plug.

1/2	3/8	1/2	5/8	3/4	7/8	1 inch.
12/6	14/0	16/0	18/0	22/0	30/0	40/0 per doz.

See Engravings, Page 75.

GAS BURNER TAPS, with Handle, 17/0 per doz.

GAS BURNER TAPS, with Rimer and Turnscrew, 30/0 per doz.

BEST ENGINEERS' SCREW TOOLS.—Whitworth's Standard Thread.

1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	2 7/8	3
2/6	2/6	2/6	2/6	2/6	2/6	2/9	3/0	3/3	3/6	4/0	4/6	5/0	6/0	7/0	per pair.	

ORDINARY PATTERN SCREW TOOLS.

Threads per inch ..	4 1/2	5	6	7	8	9	10	11	12	All finer.
Per pair	3/6	3/6	3/0	2/9	2/9	2/6	2/6	2/0	2/0	1/6

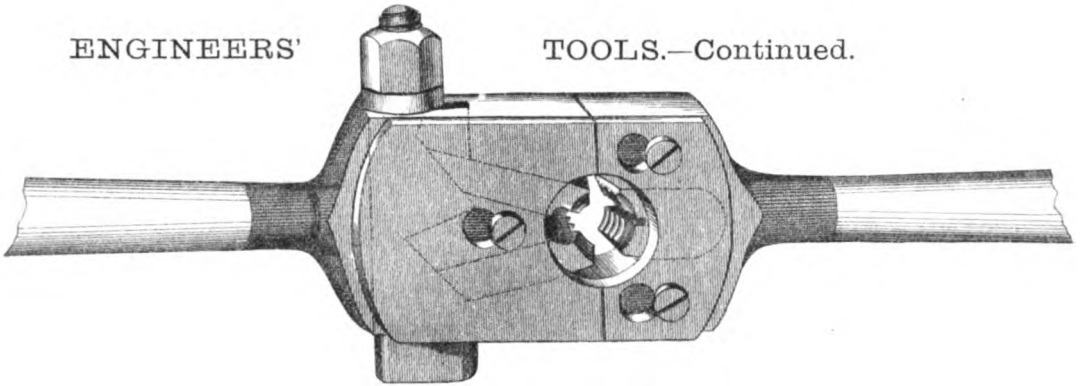
IMPROVED GROOVED WORKING TAPS, AND MASTER AND MACHINE TAPS, AND DIES, Separately.—Whitworth's Standard Thread.

Diam. in	1/2	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	3
Inches ..	3-16	1/2	5-16	3/8	7-16	1/2	9-16	5/8	11-16	3/4	13-16	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2
No. of threds.	40	24	20	18	16	14	12	12	11	10	10	9	9	8	7	6	6	5
to inch ..	40	24	20	18	16	14	12	12	11	10	10	9	9	8	7	6	6	5
Working Taps	1/9	1/9	1/9	2/0	2/3	2/6	2/9	3/0	3/3	3/6	4/0	5/0	6/0	7/0	8/0	9/6	11/6	14/0
Master Taps	2/0	2/0	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0
Machine Taps	2/0	2/0	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0
Gas Taps	2/0	2/0	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0
Taper & Plug	1/6	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0	16/0
Master Taps for Iron Gas Tube	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0	16/0	18/0
Enginrs. Fluted Rimers	2/0	2/6	3/0	3/3	3/6	4/0	5/0	6/0	6/6	7/0	7/6	8/0	9/6	10/6	12/6	14/0	16/0	18/0
Enginrs. Dies	3/0	3/0	3/0	3/0	3/0	4/6	4/6	4/6	6/0	6/0	6/0	6/0	6/0	6/0	7/6	7/6	8/6	8/6
Gas Dies	3/9	3/9	3/9	4/6	4/6	5/3	5/3	5/3	6/9	6/9	7/0	7/0	7/0	8/6	8/6	9/6	9/6	11/6

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS'

TOOLS.—Continued.

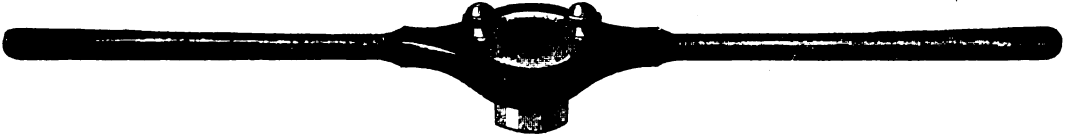


No. 32w. WHITWORTH'S PATENT GUIDE SCREW STOCKS AND DIES.

DISCOUNT.	No.	TO SCREW. Inches.	With Taper & Plug Tap to each size.	With Taper, Second, and Plug Tap to each size.	With Taper, Second, Plug and Master Tap to each size.	TO SCREW. Inches.	With Taper & Plug Tap to each size.	With Taper, Second, and Plug Tap to each size.	With Taper, Second, Plug and Master Tap to each size.
			Per Set.	Per Set.	Per Set.		Per Set.	Per Set.	Per Set.
	32w		£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
		1/16	2 15 0	2 0 0	3 10 0	1/16	8 3 6	9 13 0	11 8 0
		1/8	3 4 0	3 12 6	4 2 0	1/8	6 5 0	7 5 6	8 10 0
		3/16	3 9 0	3 18 0	4 9 0	3/16	6 10 0	7 13 6	9 1 0
		1/4	3 0 0	3 7 6	3 16 0	1/4	7 15 6	9 4 6	10 19 0
		5/16	3 1 6	3 10 0	4 0 0	5/16	9 0 0	10 13 6	12 14 0
		3/8	3 11 0	4 1 6	4 14 0	3/8	7 10 0	8 17 0	10 9 0
		7/16	1 1 0	4 13 6	5 8 0	7/16	7 17 0	9 8 0	11 5 0
		1/2	3 10 0	4 0 0	4 11 0	1/2	9 2 0	10 17 0	13 0 0
		5/8	4 2 6	4 15 0	5 10 0	5/8	9 10 0	11 9 0	13 15 0
		3/4	4 1 0	4 13 0	5 7 0	3/4	11 1 0	13 6 0	16 0 0
		7/8	4 12 0	5 6 0	6 2 0	7/8	11 0 0	12 16 0	15 0 0
		1	4 0 0	4 12 6	5 7 0	1	11 10 0	13 11 0	16 0 0
		1 1/16	4 13 6	5 8 6	6 6 0	1 1/16	12 13 0	14 16 0	17 7 0
		1 1/8	5 7 0	6 4 6	7 5 0	1 1/8	13 10 0	16 2 0	19 4 0
		1 1/4	4 10 0	5 5 0	6 3 0	1 1/4	15 7 0	18 7 0	22 0 0
		1 1/2	5 6 0	6 4 0	7 5 0	1 1/2	12 7 0	14 15 0	17 15 0
		1 3/4	6 1 0	7 1 0	8 5 0	1 3/4	13 0 0	15 15 0	19 0 0
		2	4 17 0	5 13 0	6 12 0	2	14 7 0	17 4 0	20 12 0
		2 1/16	5 0 0	5 17 6	6 18 0	2 1/16	15 10 0	18 19 0	23 0 0
		2 1/8	5 19 6	7 1 0	8 7 0	2 1/8	17 15 0	21 15 0	26 10 0
		2 1/4	6 17 0	8 2 0	9 11 0	2 1/4	23 5 0	27 10 0	32 10 0
		2 1/2	6 0 0	7 1 0	8 5 0	2 1/2	28 10 0	34 5 0	41 10 0
		2 3/4	7 2 6	8 7 6	9 18 0	2 3/4			

WHITWORTH'S PATENT GUIDE SCREW STOCKS AND DIES, IF FITTED IN
OAK OR DEAL POLISHED CASES.

DISCOUNT.	No.	TO SCREW. Inches.	Fitted into	With Taper and Plug Tap to each size, and Tap Wrenches.		With Taper, Second, and Plug Tap to each size, and Tap Wrenches.		With Taper, Second, Plug and Master Tap to each size, and Tap Wrenches.	
				Deal Case.	Oak Case.	Deal Case.	Oak Case.	Deal Case.	Oak Case.
	32w			£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
		1/16	1 Case.	11 3 0	11 13 0	12 12 0	13 2 0	14 5 0	14 15 0
		1/8	1 "	11 10 0	12 0 0	13 0 0	13 10 0	14 17 0	15 7 0
		3/16	1 "	12 18 0	13 8 0	14 13 0	15 3 0	16 15 0	17 5 0
		1/4	1 "	16 3 0	17 0 0	18 9 0	19 6 0	21 4 0	22 0 0
		5/16	1 "	16 12 0	17 9 0	18 19 0	19 16 0	21 17 0	22 14 0
		3/8	1 "	19 5 0	20 2 0	21 18 0	22 15 0	25 2 0	26 0 0
		7/16	1 "	23 6 0	24 4 0	26 18 0	27 16 0	31 0 0	32 0 0
		1/2	1 "	23 12 0	24 10 0	27 6 0	28 4 0	31 13 0	32 10 0
		5/8	1 "	25 0 0	26 0 0	29 0 0	30 0 0	33 10 0	34 10 0
		3/4	2 "	36 0 0	37 15 0	41 15 0	43 8 0	48 12 0	50 5 0
		7/8	2 "	44 7 0	46 0 0	51 15 0	53 10 0	60 15 0	62 5 0
		1	2 "	45 15 0	47 5 0	53 10 0	55 0 0	62 10 0	64 5 0

EDWARD BROOKES,**ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.****ENGINEERS' TOOLS.—Continued.****No. 33a. SOLID DIE STOCKS, FOR SCREWING IRON GAS TUBE BY ONE OPERATION.**

Dis- count.	No.	TO SCREW. Inches.	With Taper & Plug Taps to each size.	Extra Guides each.	Extra Dies each.	TO SCREW. Inches.	With Taper & Plug Taps to each size.	Extra Guides each.	Extra Dies each.
	33A		£ s. d.				£ s. d.		
		1 1/4 only	1 2 6	2/0	3/6	1 1/4 only	4 15 0		
		1 1/2 only	1 10 6			1 1/2 only	6 5 0		
		1 3/4 only	1 5 0			1 3/4 only	7 15 0		
		1 1/2	1 12 0	2/6	5/0	1 1/2	9 5 0		
		1 1/2	1 18 6			2 only	5 0 0		
		1 1/2	2 6 0			1 1/2	6 10 0	6/6	17/0
		1 1/2	1 13 0			1 1/2	8 0 0		
		1 1/2	2 1 0			1 1/2	8 18 0		
		1 1/2	2 12 0	3/0	6/6	1 1/2	9 10 0		
		1 1/2	2 15 0			1 1/2	10 5 0		
		1 1/2	3 5 0			1 1/2	11 16 0		
		1 1/2	4 0 0			2 1/2 only	6 6 0		
		1 only	2 0 0			2 1/2	9 2 6		
		1	2 12 6			1 1/2	11 5 0	7/6	21/0
		1	3 3 0	3/6	7/6	1 1/2	11 10 0		
		1	3 17 6			1 1/2	13 7 0		
		1	4 0 0			1 1/2	13 15 0		
		1	4 10 0			2 1/2 only	8 5 0		
		1	5 5 0			2 1/2	11 17 6		
		1 1/2 only	2 15 0			1 1/2	13 13 0	8/6	24/0
		1 1/2	3 10 0			2 1/2	14 18 0		
		1 1/2	4 10 0	4/0	10/6	1 1/2	17 5 0		
		1 1/2	5 10 0			3 only	12 15 0		
		1 1/2	6 5 0			2 1/2	17 5 0		
		1 1/2	6 7 6			2 1/2	20 15 0		
		1 1/2 only	3 12 0			2 1/2	21 5 0	10/0	30/0
		1 1/2	4 16 0			2 1/2	23 0 0		
		1 1/2	6 0 0	4/6	13/6	2 1/2	24 10 0		
		1 1/2	7 5 0			2 1/2	27 0 0		
		1 1/2	8 8 0						

In ordering extra Guides or Dies, give size of Stock for which they are required.

No. 46a. TURNED DRILLS, WITH STRAIGHT SHANKS.**No. 46b. STRAIGHT LIP TWIST DRILLS, WITH GRINDING LINE.**

Dis- count.	Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.
	Inch.	Inches.		Inch.	Inches.		Inch.	Inches.		Inch.	Inches.	
	1/8	2	0/4	1/8	4 1/2	1/3	1/8	5 1/2	2/0	1/8	8	3/4
	3/16	2 1/2	0/5	3/16	4 1/2	1/3	3/16	5 1/2	2/1	3/16	9 1/2	3/9
	1/4	2 1/2	0/6	1/4	4 1/2	1/4	1/4	5 1/2	2/2	1/4	8 1/2	4/2
	5/16	3 1/4	0/7	5/16	4 1/2	1/4	5/16	5 1/2	2/3	5/16	8 1/4	4/8
	3/8	3 1/2	0/8	3/8	4 1/2	1/6	3/8	5 1/2	2/4	3/8	9	5/1
	7/16	4	0/10	7/16	4 1/2	1/7	7/16	5 1/2	2/5	7/16	9 1/2	5/6
	1/2	4	1/0	1/2	5	1/9	1/2	6	2/7	1/2	9 1/2	5/11
	5/8	4	1/2	5/8	5	1/11	5/8	6	2/8	5/8	9 1/2	6/4

THE ILLUSTRATED SHEFFIELD LIST.

STRAIGHT LIP TWIST DRILLS, WITH GRINDING LINE.

No. 46 b. TURNED DRILLS, WITH TAPER SHANKS.

Discount.	Diameter of Drills.	Length of Drills.	Price each	No. and Price of Sockets for Drills	Milli-metres.	Price each.	Diameter of Drills.	Length of Drills.	Price each.	No. and Price of Sockets for Drills	Milli-metres.	Price each.
	Inch.	Inch.		No. 1 Socket, with Rough Shank . . . 50 each			Inch.	Inch.		No. 4 Socket, with Rough Shank . . . 14/3		
	$\frac{1}{8}$	6 $\frac{1}{2}$	2/0		6	2/0	1 $\frac{1}{8}$	14 $\frac{1}{2}$	18/0		39	31/0
	$\frac{1}{4}$	6 $\frac{1}{2}$	2/1		7	2/1	1 $\frac{1}{4}$	14 $\frac{1}{2}$	19/0		40	32/6
	$\frac{3}{8}$	6 $\frac{1}{2}$	2/2		8	2/2	1 $\frac{3}{8}$	14 $\frac{1}{2}$	21/6		41	33/6
	$\frac{1}{2}$	6 $\frac{1}{2}$	2/3		9	2/4	1 $\frac{1}{2}$	15	24/0		42	34/6
	$\frac{5}{8}$	6 $\frac{1}{2}$	2/5		10	2/7	1 $\frac{3}{4}$	15 $\frac{1}{2}$	31/6		43	35/8
	$\frac{3}{4}$	7	2/7		11	2/10	1 $\frac{7}{8}$	15 $\frac{3}{4}$	32/6		44	36/8
	$\frac{7}{8}$	7 $\frac{1}{2}$	2/10		12	3/2	1 $\frac{1}{2}$	15 $\frac{1}{2}$	33/8		45	37/9
	1	7 $\frac{1}{2}$	3/1		13	3/6	1 $\frac{1}{4}$	16	35/6		46	38/9
	1 $\frac{1}{8}$	7 $\frac{1}{2}$	3/4		14	3/11	1 $\frac{3}{8}$	16 $\frac{1}{2}$	38/0		47	40/0
	1 $\frac{1}{4}$	8	3/8		15	4/4	1 $\frac{1}{2}$	16 $\frac{1}{2}$	40/0		48	41/3
	1 $\frac{3}{8}$	8 $\frac{1}{2}$	4/0		16	4/10	1 $\frac{3}{4}$	16 $\frac{1}{2}$	41/8		49	42/3
	1 $\frac{1}{2}$	8 $\frac{1}{2}$	4/4		17	5/1	2	16 $\frac{1}{2}$	43/0		50	43/0
	1 $\frac{3}{4}$	8 $\frac{1}{2}$	4/9		18	5/11	2 $\frac{1}{8}$	18	45/6		52	45/6
	2	9	5/2		19	6/6	2 $\frac{1}{4}$	18	47/0		54	47/0
	2 $\frac{1}{8}$	9 $\frac{1}{2}$	5/7		20	7/1	2 $\frac{3}{8}$	18	49/6		55	49/6
	2 $\frac{1}{4}$	9 $\frac{1}{2}$	6/1		21	7/9	2 $\frac{1}{2}$	18 $\frac{1}{2}$	52/0		56	52/0
	2 $\frac{3}{8}$	9 $\frac{1}{2}$	6/7		22	8/5	2 $\frac{1}{4}$	18 $\frac{1}{2}$	55/0		58	55/0
	2 $\frac{1}{2}$	10	7/1		23	9/2	2 $\frac{3}{4}$	19	58/0		60	58/0
	3	10	7/7		24	9/11	2 $\frac{7}{8}$	19	61/6		62	61/6
	3 $\frac{1}{8}$	10 $\frac{1}{2}$	8/1		25	10/8	2 $\frac{1}{2}$	19 $\frac{1}{2}$	65/0		65	65/0
	3 $\frac{1}{4}$	10 $\frac{1}{2}$	8/8		26	11/5	2 $\frac{1}{4}$	19 $\frac{1}{2}$	69/0		66	69/0
	3 $\frac{3}{8}$	10 $\frac{1}{2}$	9/3		27	12/2	2 $\frac{3}{8}$	20	73/0		68	73/0
	4	10 $\frac{1}{2}$	9/10		28	12/11	2 $\frac{1}{2}$	20	76/6		70	76/6
	4 $\frac{1}{8}$	10 $\frac{1}{2}$	10/5		29	13/9	2 $\frac{3}{4}$	20 $\frac{1}{2}$	80/0		72	80/0
	4 $\frac{1}{4}$	11	11/0		30	14/7	2 $\frac{1}{4}$	20 $\frac{1}{2}$	82/6		74	82/6
	5	11	11/7		31	15/5	2 $\frac{3}{8}$	21	85/0		75	85/0
	5 $\frac{1}{8}$	11 $\frac{1}{2}$	12/2		32	16/3	2 $\frac{1}{2}$	21	87/6		76	87/6
	5 $\frac{1}{4}$	11 $\frac{1}{2}$	12/9		33	18/0	3	21 $\frac{1}{2}$	90/0		77	90/0
	5 $\frac{3}{8}$	11 $\frac{1}{2}$	13/4		34	18/6						
	5 $\frac{1}{2}$	11 $\frac{1}{2}$	14/0		35	19/0						
	6	12	14/9		36	20/0						
	6 $\frac{1}{8}$	12	15/6		37	21/9						
	6 $\frac{1}{4}$	12 $\frac{1}{2}$	16/4		38	24/0						

Special Notice is called to the Set of Sockets, Nos. 1, 2, 3, 4, and 5, for Turned Drills, by use of which all further fitting of Drills to the Machines is saved.

No. 46 c. TURNED DRILLS, with Taper Shanks.—Tapping Sizes.

Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.	Diameter of Drills.	Length of Drills.	Price each.
Inch.	Inch.		Inch.	Inch.		Inch.	Inch.		Inch.	Inch.	
$\frac{1}{8}$	6 $\frac{1}{2}$	2/0	$\frac{1}{8}$	9	5/2	1 $\frac{3}{8}$	11	11/6	1 $\frac{1}{8}$	14 $\frac{1}{2}$	20/0
$\frac{1}{4}$	6 $\frac{1}{2}$	2/0	$\frac{1}{4}$	9 $\frac{1}{2}$	5/10	1 $\frac{1}{2}$	11 $\frac{1}{2}$	12/2	1 $\frac{1}{4}$	14 $\frac{1}{2}$	22/0
$\frac{3}{8}$	6 $\frac{1}{2}$	2/2	$\frac{3}{8}$	9 $\frac{1}{2}$	6/7	1 $\frac{1}{4}$	11 $\frac{1}{2}$	13/6	1 $\frac{3}{8}$	15	24/0
$\frac{1}{2}$	6 $\frac{1}{2}$	2/5	$\frac{1}{2}$	10	7/6	1 $\frac{3}{8}$	12	14/9	1 $\frac{1}{2}$	15	26/6
$\frac{5}{8}$	7	2/7	1	10 $\frac{1}{2}$	8/1	1 $\frac{1}{2}$	12	16/0	1 $\frac{1}{4}$	15	29/0
$\frac{3}{4}$	7 $\frac{1}{2}$	3/1	1 $\frac{1}{8}$	10 $\frac{1}{2}$	9/3	1 $\frac{1}{4}$	14 $\frac{1}{2}$	18/0	1 $\frac{3}{8}$	15 $\frac{1}{2}$	32/0
1	8	3/8	1 $\frac{1}{4}$	10 $\frac{1}{2}$	10/5	1 $\frac{3}{8}$	14 $\frac{1}{2}$	19/0	2	16	36/0
1 $\frac{1}{8}$	8 $\frac{1}{2}$	4/4									

No. 46 d. Stub's Steel Wire Gauge, Straight Shanks.

Nos. of Wire the Drills are made from	Whole Length of Drills.	Each.	Per Doz.	Nos. of Wire the Drills are made from	Whole Length of Drills.	Each.	Per Doz.
	Inches.				Inches.		
1 to 5	4	0/9	8/7	31 .. 35	2 $\frac{1}{2}$	0/5	4/6
6 .. 10	3 $\frac{1}{2}$	0/8	7/10	36 .. 40	2 $\frac{1}{4}$	0/5	4/6
11 .. 15	3 $\frac{1}{4}$	0/7	7/0	41 .. 45	2 $\frac{1}{8}$	0/4	3/8
16 .. 20	3 $\frac{1}{8}$	0/7	6/4	46 .. 50	1 $\frac{1}{2}$	0/4	3/8
21 .. 25	3	0/6	5/5	51 .. 65	1 $\frac{1}{8}$	0/3	2/6
26 .. 30	2 $\frac{3}{4}$	0/6	5/5				

No. 46 e. Bit Stock Drills.

Size.	Each.	Per Doz.	Size.	Each.	Per Doz.
Inch.			Inch.		
$\frac{1}{8}$	0/7	5/9	$\frac{1}{8}$	1/10	21/6
$\frac{1}{4}$	0/8	6/4	$\frac{1}{4}$	2/0	33/9
$\frac{3}{8}$	0/9	7/8	$\frac{3}{8}$	2/3	26/0
$\frac{1}{2}$	0/10	9/0	$\frac{1}{2}$	2/6	28/6
$\frac{5}{8}$	1/0	10/6	$\frac{5}{8}$	2/9	31/6
$\frac{3}{4}$	1/2	12/6	$\frac{3}{4}$	3/0	35/0
$\frac{7}{8}$	1/6	17/0	1	3/4	39/0
1	1/8	19/3			

EDWARD BROOKES.

ENGINEERS' TOOL CHESTS,

ADAPTED FOR THE USE OF ENGINEERS ON STEAMSHIPS, or MECHANICS, &c.,
IN STRONG CHESTS.

No. 1. PRICE, £60. Containing

- | | |
|---|---|
| <p>1 Set best Stocks and Dies, No. 32, with Taper, Second, and Plug Taps to each size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.</p> <p>1 Set ditto, as above, $\frac{3}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{2}$ inch.</p> <p>4 Tap Wrenches, 2 Tommies.</p> <p>1 Set Gas Stocks and Dies, with Taper and Plug Taps to each size, $\frac{1}{4}$, $\frac{3}{8}$, 1 inch.</p> <p>1 Set ditto, as above, $1\frac{1}{2}$, $1\frac{3}{4}$, 2 inch.</p> <p>1 Improved Ratchet Brace, 14 and 22 inches.</p> <p>1 Drilling Pillar and Crank Brace.</p> <p>2 Doz. Drills, assorted, for Engineers and Gas Tubing.</p> <p>1 Clyburn's Spanner, each, 10, 18, 24 inches.</p> <p>$\frac{1}{2}$ Doz. C.S. Chipping Hammers, assorted, handled.</p> <p>1 Doz. C.S. „ Chisels, assorted.</p> | <p>1 Patent Pipe Wrench and Ring Cutter combined, each $\frac{1}{2}$ to 1 inch, $1\frac{1}{2}$ to 2 inches, $2\frac{1}{2}$ to $3\frac{1}{2}$ inches.</p> <p>1 Engineer's Steel Square, each 6, 12 inches.</p> <p>1 Ditto Straight Edge, 24 inches.</p> <p>2 Pairs Steel Callipers, assorted.</p> <p>1 Pair Spring Dividers.</p> <p>1 Pair Wing Compasses.</p> <p>1 Engineer's Rule.</p> <p>1 Plumb Bob and Centre Punch.</p> <p>1 Oil Can.</p> <p>1 Plated Spirit Level.</p> <p>1 Bow Saw and $\frac{1}{2}$ doz. Webs.</p> <p>1 Best Hand Vice.</p> <p>1 Doz. Files, assorted, and 3 doz. Handles.</p> |
|---|---|

No. 2. PRICE, £36. Containing.

- | | |
|---|---|
| <p>1 Set best Stocks and Dies, No. 32, with Taper, Second, and Plug Taps to each size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.</p> <p>1 Set ditto, as above, $\frac{3}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{2}$ inch.</p> <p>4 Tap Wrenches and 2 Tommies.</p> <p>1 Improved Ratchet Brace, 12 and 18 inches.</p> <p>1 Doz. Drills for ditto, assorted.</p> <p>3 C.S. Engineers' Hammers, and 6 C.S. Chisels, assorted.</p> <p>1 Patent Pipe Wrench and Ring Cutter, $\frac{1}{2}$ to 1 inch.</p> <p>1 Ditto ditto ditto $1\frac{1}{2}$ to 2 inches</p> | <p>2 Engineers' Steel Squares.</p> <p>1 Ditto Straight Edge, 15 inches.</p> <p>1 Ditto Rule.</p> <p>1 Ditto Brass Plumb Bob, 1 Centre Punch.</p> <p>2 Pairs Callipers, assorted.</p> <p>1 Pair Spring Dividers.</p> <p>1 Pair hand Vice, and Oil Can.</p> <p>1 Spirit Level.</p> <p>1 Bow Saw and 3 Webs.</p> <p>1 Doz. Files, handled, assorted.</p> |
|---|---|

No. 3. PRICE, £27. Containing

- | | |
|---|---|
| <p>1 Set best Stocks and Dies, No. 32, with Taper, Second, and Plug Taps to each size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.</p> <p>1 Set ditto, as above, $\frac{3}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{2}$ inch.</p> <p>4 Tap Wrenches and 2 Tommies.</p> <p>1 Ratchet Brace, 18 inches, and 1 doz. Drills.</p> <p>1 Crank Brace and $\frac{1}{2}$ doz. Drills.</p> <p>1 Clyburn's Spanner, 10 and 18 inches.</p> <p>3 C.S. Chipping Hammers, and 6 C.S. Chisels.</p> | <p>2 Engineers' Squares, assorted.</p> <p>1 Ditto Steel Straight Edge, 12 inches.</p> <p>1 Ditto ditto Rule.</p> <p>1 Plumb Bob, 1 Centre Punch.</p> <p>1 Oil Can and 1 Pair-hand Vice.</p> <p>1 Pair Callipers, 1 Spirit Level.</p> <p>1 Bow Saw and 3 Webs.</p> |
|---|---|

No. 4. PRICE, £18. Containing

- | | |
|--|--|
| <p>1 Set best Stocks and Dies, No. 32, with Taper and Plug Taps to each size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ inch.</p> <p>1 Set ditto, as above, $\frac{3}{8}$, $\frac{1}{2}$, 1 inch.</p> <p>3 Tap Wrenches, 2 Tommies.</p> <p>1 Ratchet Brace, 16 inches, and 1 doz. Drills, assorted.</p> <p>1 Crank Brace, 1 Clyburn's Spanner 8, 15 inches.</p> | <p>3 C.S. Chipping Hammers, and 6 C.S. Chisels, assorted.</p> <p>1 Engineer's Square, 1 ditto Straight Edge.</p> <p>1 Pair Callipers, 1 pair Spring Dividers.</p> <p>1 Plumb Bob, 1 Hand Vice.</p> <p>1 Bow Saw and Web.</p> <p>1 Oil Can, 1 Centre Punch.</p> |
|--|--|

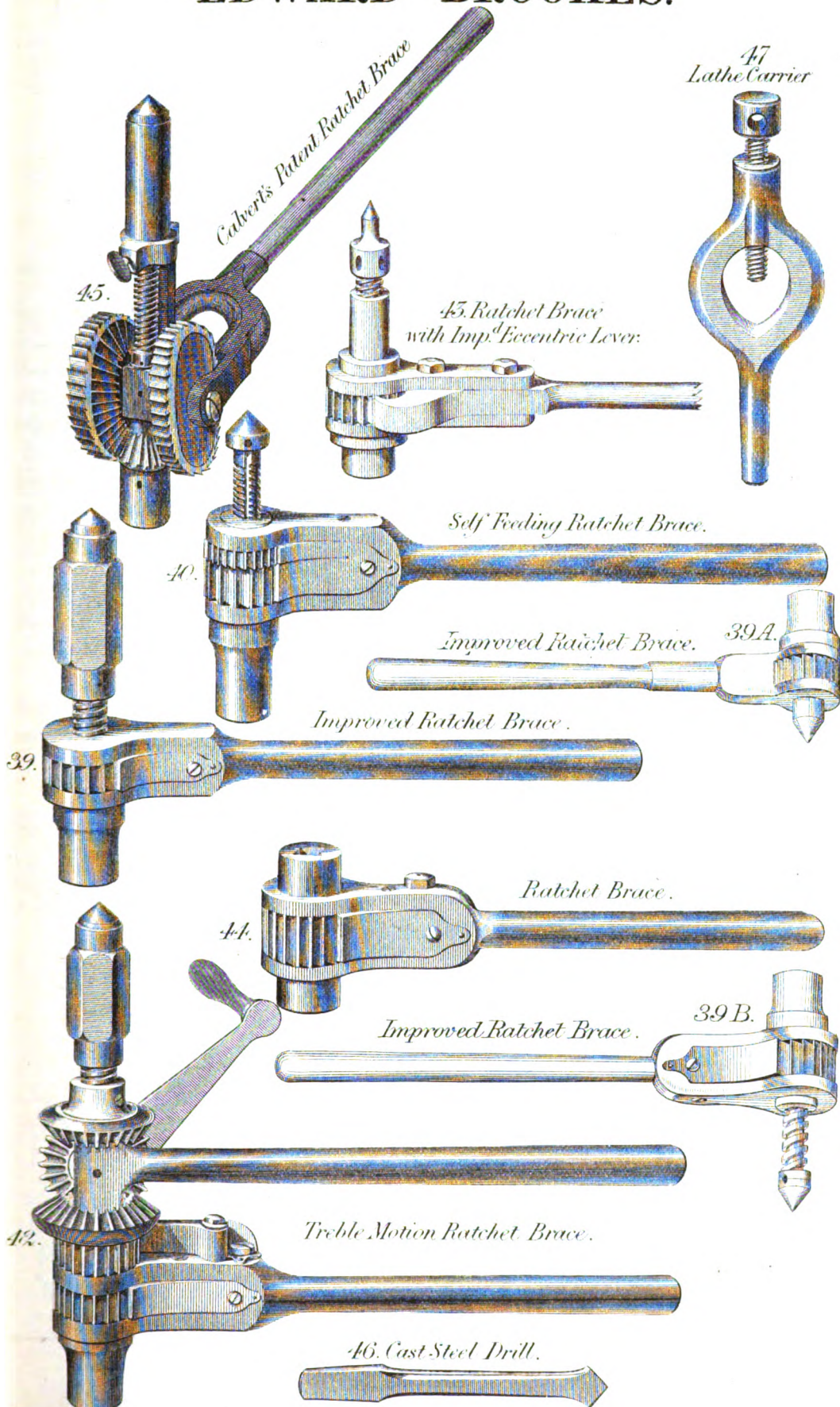
ENGINEER, MACHINIST & TOOL MAKER, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

Dis- COUNT.	No.	IMPROVED RATCHET BRACES.									
		10	12	14	16	18	20	22	24	27	30 in.
	39	Improved Ratchet Brace	17/0	17 0	20 0	23/0	25/0	28/0	31/0	34/0	37/0 40/0 ea.
	39A	Ditto ditto.	17 0	17 0	20 0	23/0	25/0	28/0	31 0	34 0	37/0 40 0 „
	39B	Ditto ditto.	17/0	17 0	20 0	23/0	25/0	28/0	31/0	34/0	37/0 40/0 „
	40	Self-Feeding Ratchet Brace ..	35 0	35 6	38/0	41/0	44/0	48/0	53/0	..	.. „
	41	Double-Motion Brace.....	..	45/0	45 0	47/6	50/0	57/6	61/0	65/0	75/0 80 0 „
	42	Treble-Motion Brace ....	..	62/0	66 0	70/0	76/0	82/0	90/0	100/0	.. „
	43	Ratchet Brace, with Im- proved Eccentric Lever ..	..	26/0	28/0	30/0	33/0	36/0	39/0	42/0	48/0 55 0 „
	44	Ratchet Brace ..	..	18/0	20 0	22/0	24/0	26/0	28/0	30/0	34/0 38 0 „
	45	Calvert's Patent Universal Ratchet Brace, with Lewis's Patent Self-Feeding Motion	15	18	21	24	30	36 inches.			
	46	Cast Steel Drills, 12/0 per dozen, assorted from 1/8 to 1 inch.									
<hr/>											
		BEST LATHE CARRIERS, with Steel Screws.									
	47	Span	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2 4 5 6 inches.
			3/0	4/0	5/0	6/6	8/0	10 0	12/6	15/0	18/0 21/0 25/0 30/0 35/0 each.
<hr/>											
		COMMON LATHE CARRIERS, with Steel Screws.									
	48	Span	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2 4 5 6 inches.
			2/0	2/6	3/0	4/0	5/0	6/6	8/0	10/0	12/0 15/0 18/0 21/0 25/0 each.

EDWARD BROOKES.



THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

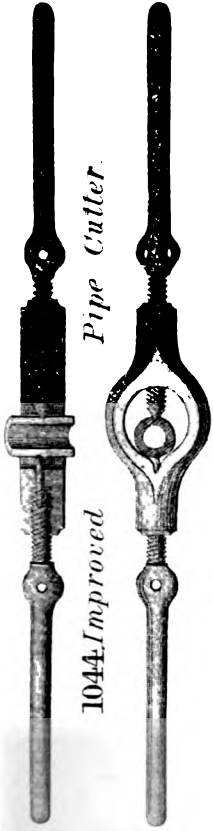
Dis- count.	No.	
	48a	Gas Pipe Wrench, with three Loose Jaws :— <div> <div>For $\frac{1}{2}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ 2 inch., for Iron Pipe.</div> <div>6/0 8/0 12/0 each.</div> </div>
		<div> <div>3 3$\frac{1}{2}$ 4 4$\frac{1}{2}$ 5 5$\frac{1}{2}$ 6 inches.</div> <div>73 Hand Vice, best black 28/0 30/0 32/6 37/0 49/0 60/0 75/0 per dozen.</div> <div>74 Ditto, with Key, 12/0 per doz. more than No. 73.</div> <div>75 Common Hand Vice 20/0 20/0 20/0 22/0 26/0 32/0 40/0 per dozen.</div> <div> <div>1 1$\frac{1}{2}$ 1$\frac{1}{2}$ 1$\frac{3}{4}$ 2 2$\frac{1}{2}$ 2$\frac{3}{4}$ 3 lbs. each.</div> <div>76 Lancashire Bench Vice..... 8/0 8/6 9/2 10/0 10/8 11/3 11/8 12/1 12/6 each.</div> <div> <div>3$\frac{1}{2}$ 3$\frac{1}{2}$ 3$\frac{3}{4}$ 4 4$\frac{1}{2}$ 4$\frac{1}{2}$ 4$\frac{3}{4}$ 5 lbs. each.</div> <div>77 Common ditto 13/0 13/4 13/9 14/6 15/0 15/6 15/10 16/6 each.</div> <div> <div>1 1$\frac{1}{2}$ 2 2$\frac{1}{2}$ 3 3$\frac{1}{2}$ 4 lbs. each.</div> <div>77a Beck Irons 23/0 27/0 30/0 36/0 42/0 48/0 54/0 per dozen.</div> <div> <div>6 8 10 12 14 inch Jaws.</div> <div>974a Parallel Vice, for Planing Machine will open 8 12 14 15 16 inches.</div> <div> <div>80/0 90/0 100/0 110/0 125/0 each.</div> <div>Ditto ditto ditto Swivel Bottom, 60/0 each extra.</div> <div> <div>5 6 7 inch Jaws.</div> <div>974b Patent Portable Vice 120/0 130/0 150/0 each.</div> <div>974c Adjustable Bench Vice, 0/10 per lb.</div> <div>974d Mechanics' Portable Work Bench, with Pillar Drilling Machine, Vice, and Box for Tools, £ each.</div> <div> <div>$\frac{1}{2}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ 2 inch Iron Pipe.</div> <div>1044 Improved Pipe Cutter..... 20/0 25/0 30/0 35/0 each.</div> <div>1050 Hand Punching and Shearing Machine, for $\frac{3}{8}$ Plates, £</div> <div>1051 Eccentric Punching Machine, on Stand.</div> </div> </div></div></div></div></div></div></div>

PLATE BENDING MACHINES,

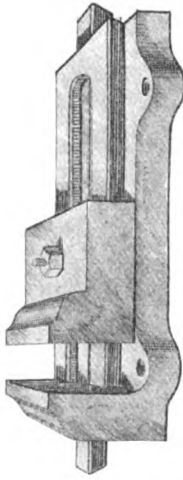
For Straightening or Bending Plates to any Curve.

No. 1.—Fitted with Three Rollers, 7 inch. diameter, 4 feet long	£
„ 2.—Ditto ditto 9 ditto 6 ditto	£
„ 3.—Ditto ditto 12 ditto 8 ditto	£
„ 4.—Ditto ditto 14 $\frac{1}{2}$ ditto 12 ditto	£

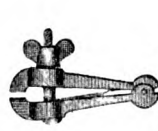
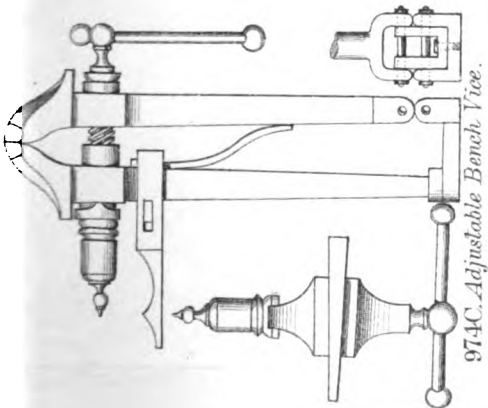
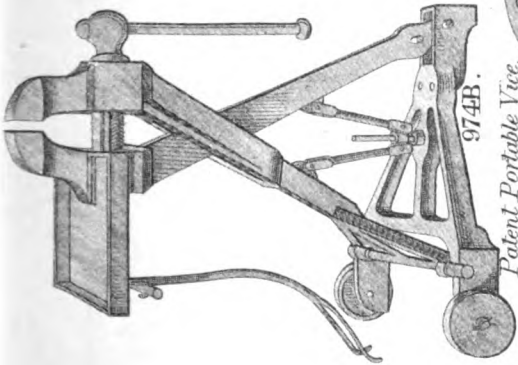
EDWARD BROOKES.



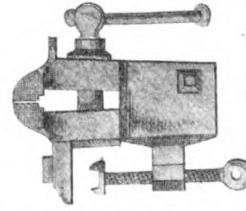
48R. Gas Pipe Wrench



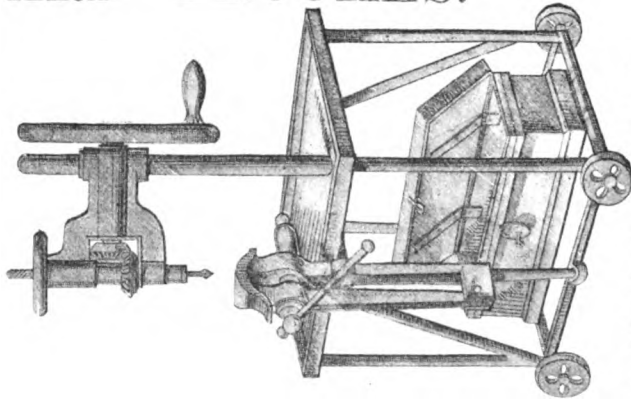
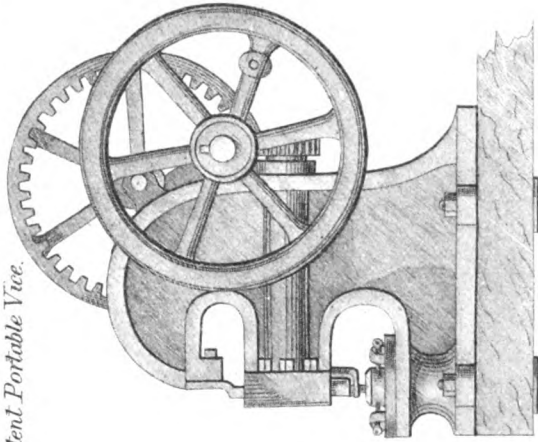
974A Parallel Vice for Planing Machine.



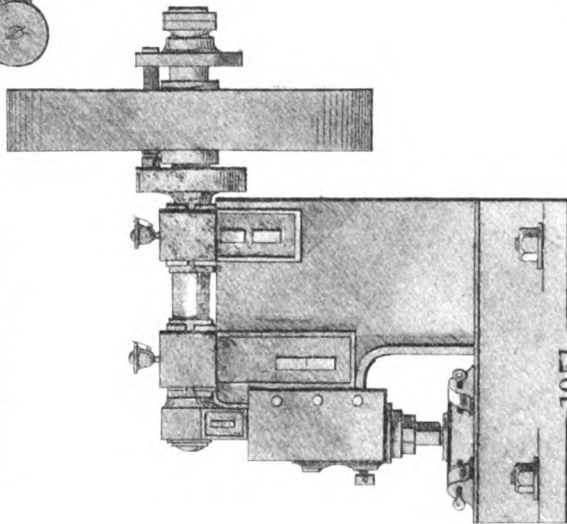
73. Hand Vice.



76. Bench Vice.

974D. Pillar Drilling Machine, with
Portable Vice, Bench & Box.

1050. Hand Punching and Shearing Machine.

1051
Eccentric Punching Machine. (on Stand)

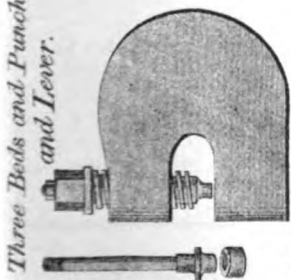
THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

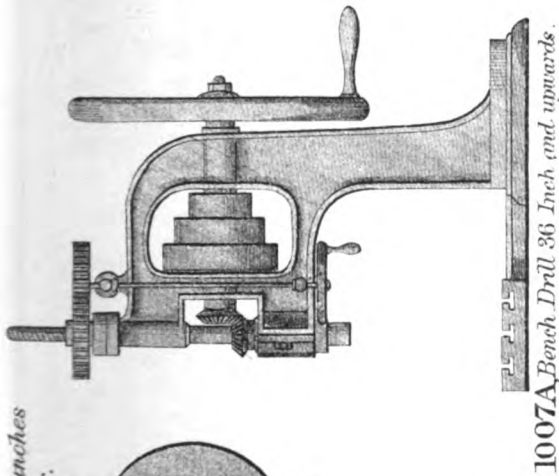
Dis- count.	No.	FLY PRESSES.									
		2 3 4 5 6 7½ 10 cwt.									
	997A	FLY PRESS, Double Side.....									
	1001A	Amateur Foot Lathe, with Planed Metal Bed, Standards, Crank, and Driving Wheel, Hand Rest, Face Plate, and Two Centres, £6 14s.									
	1007A	Bench Drill, for Hand and Steam Power.....									
	1007B	Pillar Drilling Machine, £5.									
	1052	Boiler Bear and Lever, with Three Beds and Punches									
COPYING PRESSES.											
	1101	Note Size, 8 by 10 inches, 21/0; with Brass Ball Handles and Brass Nut, 31/0 each.									
	1102	Large Post, 10 by 12 inches, 25/0 ditto ditto ditto 36/0 „									
	1103	Foolscap, 10 by 15 inches, 40/0 ditto ditto ditto 47/0 „									
	1104	Large Folio, 12 by 18 inches, 63/0 ditto ditto ditto 71/0 „									
	1105	Flat Folio, 22 by 17 inches, 115/0 ditto ditto ditto 127/6 „									
	1105A	Royal, 24 by 18 inches, 132/6 ditto ditto ditto 145/0 „									
VERTICAL SAW FRAME.											
	1106	Vertical Saw Frame, for all kinds of Curved Work, £33.									
	1107	Saw Buckles made to order.									
	1108	Grinding Stone and Trough ..									
		Ditto, to work by Steam Power, charged extra.									

EDWARD BROOKES.

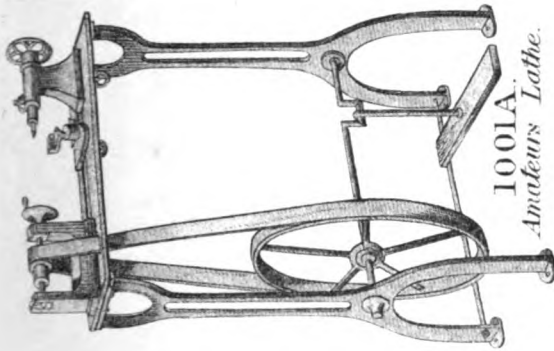
With Three Beds and Punches
and Lever.



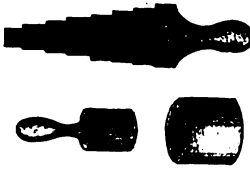
1052, Boiler Bear.



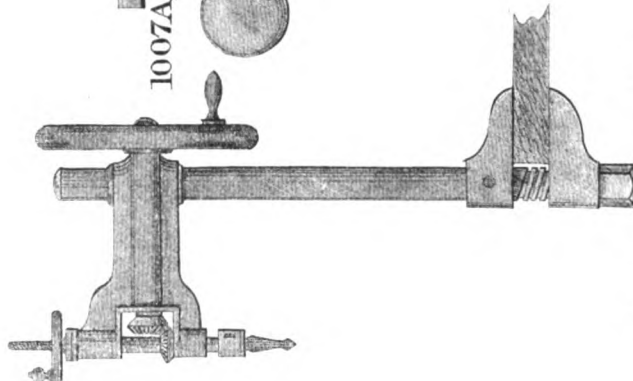
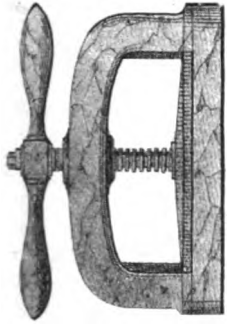
1007A, Bench Drill 36 Inch and upwards.



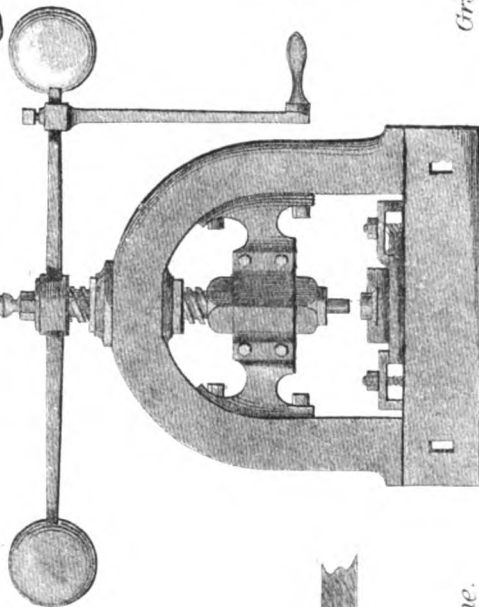
1001A,
Amaleux Lathe.



1102, *COPYING PRESS.*
Standard Gages. { for Letter or Note Size.



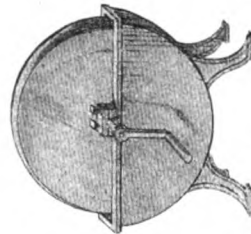
Putter Drilling Machine.
1007B.



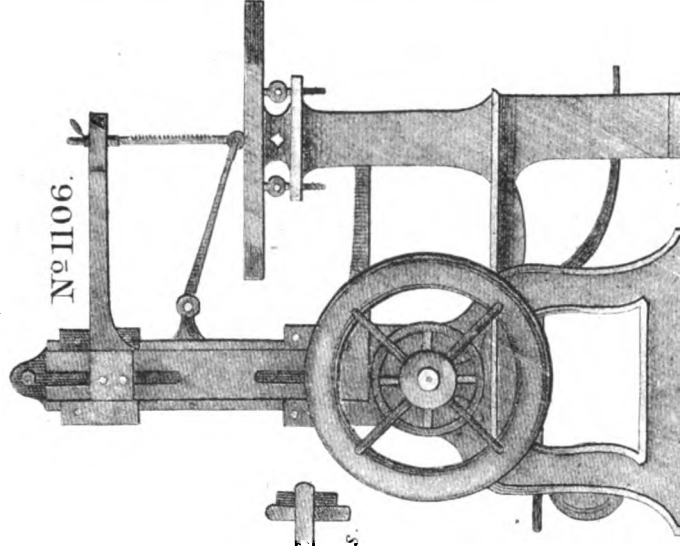
997A, Fly Press.



1107, Saw Buckles.



Grinding Stone and Trough.
1108.



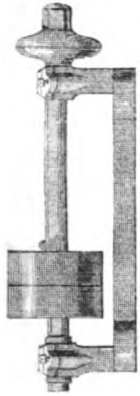
1106,
VERTICAL SAW FRAME.

THE ILLUSTRATED SHEFFIELD LIST.

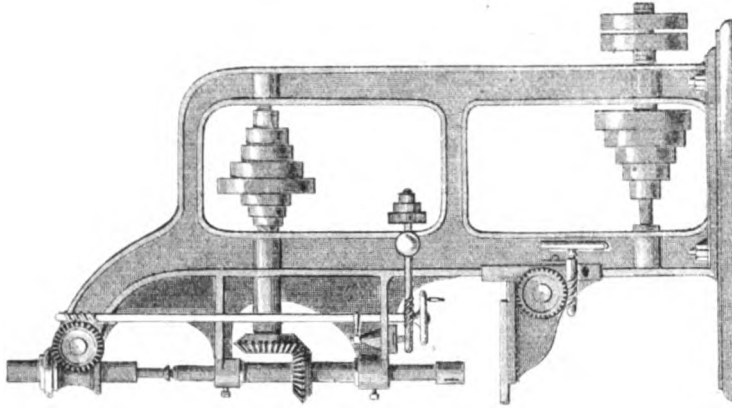
ENGINEERS' TOOLS.—Continued.

Dis- count.	No. 48A	CIRCULAR SAW SPINDLES, Complete, with Pedestals, Brasses, Fast and Loose Pulleys.										
		1	1½	1¾	1¾	1½	1½	2	2½	2½	2¾	3 inches diameter.
		42/0	48/0	54/0	60/0	70/0	85/0	100/0	120/0	140/0	170/0	200/0 each.
	48B	CIRCULAR SAW SPINDLES, WITH IMPROVED METAL FRAMES.										
		1	1½	1¾	1¾	1½	1½	2	2½	2½	2¾	3 inches diameter.
		50/0	55/0	60/0	70/0	80/0	100/0	120/0	145/0	170/0	200/0	220/0 each.
	994	CIRCULAR SAW TABLE, Complete, with Planed Metal Top and Rollers, Spindle, Collars, Pulleys, and One Saw.										
		12	18	24	30	36	42	48	inches diameter.			
		£12 15s.	£16 10s.	£22	£28	£33 10s.	£40	£47				
		Improved Parallel Fence or Gauge, for ditto, £6 10s.										
		Improved Feed Motion or Drag, for ditto, £7.										
	995	SELF-ACTING SAW BENCH, Complete, with Improved Parallel Fence, Spring Roller, Self-acting Drag, and one Saw.										
		30	36	42	48	54	60	72	84	inches diameter.		
		£45	£55	£65	£75							
		Circular Saws, of best quality, for ditto. See page 63.										
	996	CIRCULAR GROOVING SAWS. LATHE TURNED, AND CUT TO ANY TOOTH, OR TO ANY DIAMETER.										
		1½	1	¾	¾	1½	1	¾	¾	¾	1	1 inch thick.
		1/8	1/9	1/10	2/0	2/2	2/4	2/6	2/6	2/9	3/0	3/6 per inch diameter.
	997	PUNCHING MACHINES AND FLY PRESSES, WORKED BY HAND OR POWER.										
		Weight, complete	1	2	3	4	5	6	7½	10	cwt.	
		Height of Casting	16	20	24	28	32	36	40	44	inches.	
		Price, Worked by Hand	85/0	110/0	150/0	180/0	210/0	250/0	350/0	480/	each.	
		Ditto by Steam Power	each.									
	997A	TRIANGULAR BAR TURNING LATHES, WITH FORK REST.										
		Length of Bed	14	16	18	20	22	24	26	28	30	inches.
		Height of Centres	2½	2½	3	3½	3½	3½	4	4½	4½	„
		Price	57/6	65/0	95/0	105/0	115/0	135/0	155/0	170/0	190/0	each.
		FOOT LATHES, Complete, with Planed Metal Bed, Standards, Anti-friction Treadle and Chain, Crank and Driving Wheel, Hand Rest, Face Plate, Drill Chuck, and Two Centres.										
		Height of Centres	4	4½	5	5½	6	7	8	inches.		
		Length of Bed	3	3½	4	5	6	7	8	feet.		
	1002	Single Gear Headstocks	£10	£11 0	£12	£15 0	£18	£22	£28	each.		
	1003	Double Gear Headstocks	£15	17 10	21	25 0	30	40	50	„		
		Complete for Sliding and Screw Cutting	£33	36 0	40	45 0	50	60	70	„		
	1004	Compound Slide Rests (Portable)	£ 5	5 10	6	6 10	7	8	10	„		
		Collar Plate, with Drill Rest										
		SELF-ACTING VERTICAL DRILLING MACHINES.										
	1005	Drilling Machines, including Cast Iron Base Plate having a Vertical Slide, by Rack and Pinion to admit an article 2 feet diameter, to Drill up to 1½ inch diameter; Driving Apparatus being self- contained										
		£										
	1007	SMALL BENCH DRILL, FOR HAND OR STEAM POWER.										
		Height	15	20	25	30	36	42	inches.			
			50/0	75/0	110/0	150/0	240/0	350/0	each.			

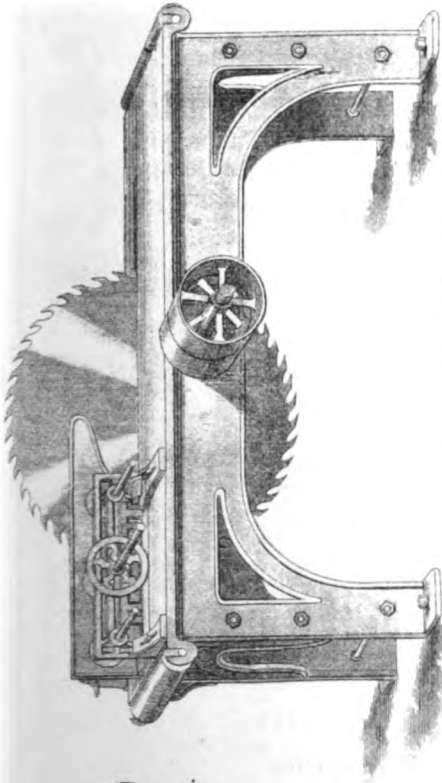
EDWARD BROOKES.



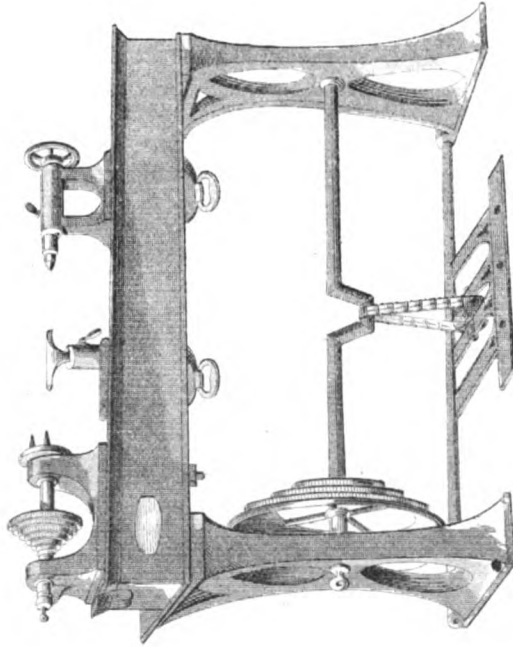
48 B. Saw Spindle & Frame.



1005. Self Feeding Drilling Machine.



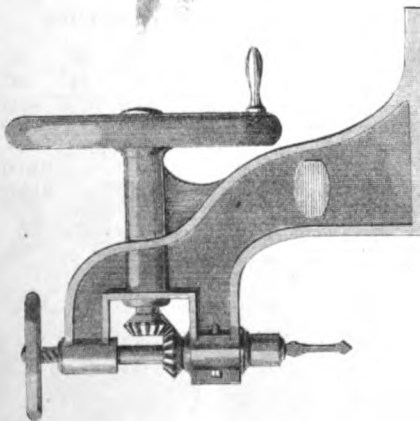
994. Circular Saw Table, Planed Metal Top, Rollers, Spindle &c



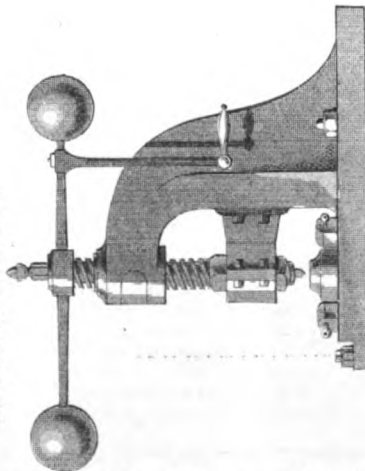
1002. Foot Lathe.



48 A. Stamp Spindle & Pedestal.



1007. Small Drill.



997. Fly Press.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

Dis- count.	No.	GIN OR RUBBISH BLOCKS.													
	977A	Diameter of Pulley	3½	4½	6	7	8	10	12	14	16	18	20	22	inch.
		Width of Groove	½	¾	1	1	1	1	1	1½	1½	1½	1½	1½	..
		Weight about	3½	6	11	11½	12	17	23	34	44	50	60	67	lbs.
		Price	5/3	6/3	7/0	7/9	8/9	10/0	12/0	13/9	17/6	21/0	25/0	30/0	each.

BEST WROUGHT IRON PULLEY BLOCKS, Warranted Quality.

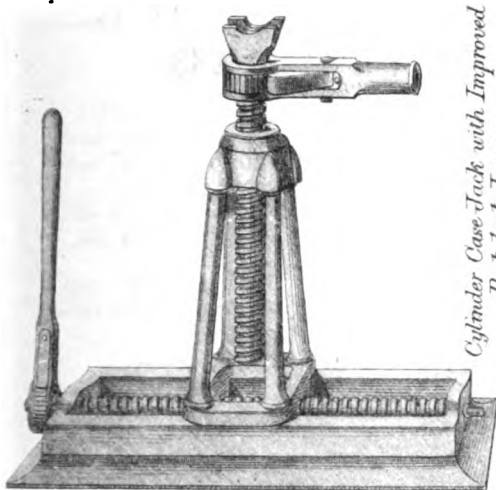
These Blocks have Turned Shafts, Bright Pulleys, and are Bored, and Wrought Iron Cross-heads.

		Diameter of Pulley	2½	3	4	4½	5	6	7	8	9	10	11	12	14	15	16	inch
		Width of Groove..	¾	1	1	1	1	1	1½	1½	1½	2	2½	2½	2½	3	3½	..
		Weight about, lbs.	1½	3½	6½	9½	13	16	23	38	48	69	102					
977B		Snatch Block	4/6	4/9	5/9	6/6	9/6	11/6	14/0	17/6	26/6	52/6	62/6	94/0	119/0	144/0	182/0	each.
		Weight about, lbs.	1½	3½	4½	8½	14	15	21	35	44	60						
978		One Sheave Block	3/3	3/9	4/9	6/6	8/3	9/6	12/0	15/9	25/6	37/6	56/6	75/0	100/0	125/0	145/0	..
		Weight about, lbs.	2	5½	9½	14½	20	26	38	60	79	114						
979		Two Sheave Block	4/6	6/3	7/3	9/0	12/0	13/9	20/0	28/3	40/0	62/6	112/6	132/0	158/0	188/0	220/0	..
		Weight about, lbs.	3	7½	11	19	28	36	49	80	107	150						
980		Three Sheave Block	5/9	7/3	9/0	12/0	15/9	18/3	26/3	37/6	56/6	87/6	144/0	195/0	212/6	250/0	375/0	..
		Weight about, lbs.	4	7½	12	24	36	48	67	100	140	192						
981		Four Sheave Block	7/6	8/6	11/3	16/3	21/6	25/0	37/6	53/3	81/6	118/6	175/0	207/0	250/0	325/0	380/0	..
		Spare Iron Sheaves	0/4	0/5	0/7	1/1	1/7	1/11	3/2	4/5	5/8	7/6	10/0	12/6	17/6	21/3	25/0	..
		Brass Sheave Blocks	1/3	1/11	2/10	4/5	6/3	8/3	11/0	16/0	24/3	40/0						
		Per Sheave Extra.																

Blocks will take chain 1½ 1 1½ 2 2½ 3 3½ 4 4½ 5 5½ 6 6½ 7 7½ 8 8½ 9 9½ 10 10½ 11 11½ 12 12½ 13 13½ 14 14½ 15 15½ 16 16½ 17 17½ 18 18½ 19 19½ 20 20½ 21 21½ 22 22½ 23 23½ 24 24½ 25 25½ 26 26½ 27 27½ 28 28½ 29 29½ 30 30½ 31 31½ 32 32½ 33 33½ 34 34½ 35 35½ 36 36½ 37 37½ 38 38½ 39 39½ 40 40½ 41 41½ 42 42½ 43 43½ 44 44½ 45 45½ 46 46½ 47 47½ 48 48½ 49 49½ 50 50½ 51 51½ 52 52½ 53 53½ 54 54½ 55 55½ 56 56½ 57 57½ 58 58½ 59 59½ 60 60½ 61 61½ 62 62½ 63 63½ 64 64½ 65 65½ 66 66½ 67 67½ 68 68½ 69 69½ 70 70½ 71 71½ 72 72½ 73 73½ 74 74½ 75 75½ 76 76½ 77 77½ 78 78½ 79 79½ 80 80½ 81 81½ 82 82½ 83 83½ 84 84½ 85 85½ 86 86½ 87 87½ 88 88½ 89 89½ 90 90½ 91 91½ 92 92½ 93 93½ 94 94½ 95 95½ 96 96½ 97 97½ 98 98½ 99 99½ 100 100½ 101 101½ 102 102½ 103 103½ 104 104½ 105 105½ 106 106½ 107 107½ 108 108½ 109 109½ 110 110½ 111 111½ 112 112½ 113 113½ 114 114½ 115 115½ 116 116½ 117 117½ 118 118½ 119 119½ 120 120½ 121 121½ 122 122½ 123 123½ 124 124½ 125 125½ 126 126½ 127 127½ 128 128½ 129 129½ 130 130½ 131 131½ 132 132½ 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EDWARD BROOKES.

LIFTING & TRAVERSING JACKS, PULLEY BLOCKS, &c.



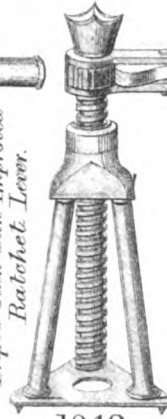
1043, Patent Traversing Jack.

Cylinder Case-Jack with Improved Ratchet Lever.



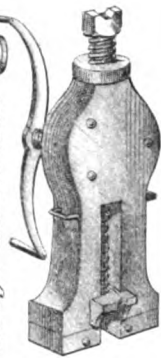
1041.

Tripod-Jack with Improved Ratchet Lever.



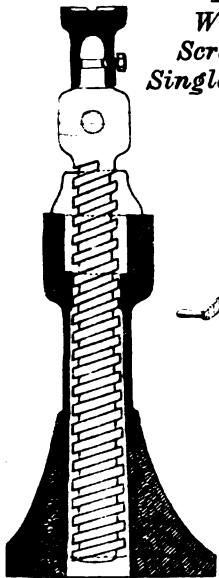
1042.

Haley's Patent-Jack



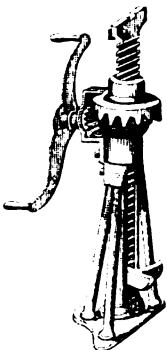
1040.

100. Lifting Jack.



1043A

Tripod Windlass Screw Jack, Single Purchase.



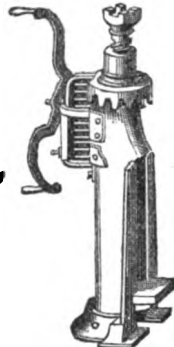
1042A

Windlass Screw Jack, Single Purchase.



1042B

Windlass Screw Jack, Single Purchase.



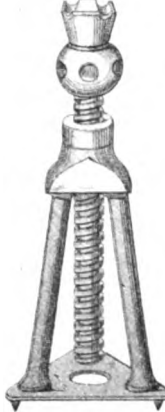
1042C

Bottle Jack.



1037

Tripod Jack.



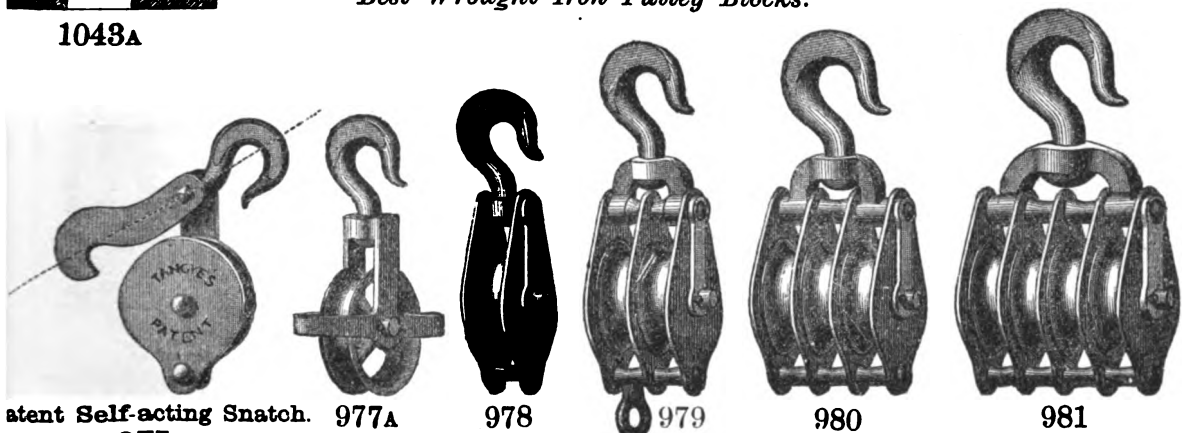
1038

Lifting Jack.



1039

Best Wrought Iron Pulley Blocks.



Patent Self-acting Snatch. 977B

977A

978

979

980

981

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

PATENT HYDRAULIC LIFTING JACKS, AND WESTON'S PATENT DIFFERENTIAL PULLEY BLOCKS.

Dis- count.	No.	Patent Hydraulic Lifting Jacks.											
	1048A	will lift ..	3	4	6	8	10	12	15	20	30	40	50 60 tons.
		Height	19	23	24	25	26	26	26	28	28	28	28 inches.
		Will run out ..	6	10	10	11	12	12	12	12	11	11	10 ..
			87/6	106/0	125/0	150/0	162/6	187/6	225/0	260/0	320/0	400/0	450/0 500/0 each.
		Weight about..	34	57	68	76	86	96	104	132	174	206	264 364 lbs.
	1043B	Patent Hydraulic											
		Traversing Jacks	3	4	6	8	10	12	15	20	30	40	50 60 tons.
			162/6	181/0	200/0	225/0	237/6	262/6	350/0	385/0	445/0	525/0	575/0 625/0 each.

WESTON'S PATENT DIFFERENTIAL PULLEY BLOCKS.

The peculiar merit attached to these Pulleys is that while they are more powerful than ordinary Pulley Blocks, they also possess the novel and invaluable quality of not "running down" under any circumstances, whilst the load is suspended to them. Wherever weights have to be lifted this hoisting tackle WILL BE FOUND INVALUABLE.

In ordering either kind, please specify height of lift, or state what chain is required. When worked from above, with Ratchet or Spocket, it takes about three times the length of lift. When worked from below, by pulling the chain, about four times the length of lift is required.

UPWARDS OF 90,000 SETS HAVE BEEN SOLD.

Adopted in all the principal Workshops in the World.

1048C	Patent Differential Pulley Blocks, tested to	5	10	12	20	30	40	60	80 cwt.
		10/0	15/0	16/0	22/0	32/0	40/0	60/0	80/0 per set.
	Bright B.B. Chains	0/6	0/6	0/7	0/8	0/9	0/10	1/0	1/2 per foot.

PARTS OF WESTON'S PULLEY BLOCKS FOR REPAIRS.

Tested to	Top Block.	Top Sheave.	Bottom Block.	Bottom Sheave.	Tested to	Top Block.	Top Sheave.	Bottom Block.	Bottom Sheave.
5 cwt.	7/6	3/3	3/3	1/6	40 cwt.	31/0	14/6	11/6	2/9
10 "	12/6	3/9	4/6	1/6	60 "	45/0	15/9	14/0	3/9
12 "	13/0	4/0	4/9	1/7	80 "	64/0	19/6	21/0	5/6
20 "	19/0	5/9	6/3	1/10	100 "	103/0	27/6	48/0	9/0
30 "	25/0	10/9	8/9	2/6	120 "	119/0	53/0	69/0	11/6

N.B.—In ordering repairs or part of Blocks, give the number stamped on the Strap of Top Frame.

1043c	With Ratchet Pulley, by which one man can lift the weight specified, with Self-sustaining Brake, tested to	1/2	1	2	3	4	tons.
		45/0	60/0	80/0	150/0	180/0	per set.
	Bright B.B. Chains	0/6	0/7	0/9	0/10	0/10	per foot.
1043d	PULLEY, WITH PATENT GEAR, tested to....	3	4	5	6	8	10 tons.
		90/0	110/0	140/0	180/0	230/0	240/0 per set.
	Bright B.B. Chains	1/0	1/1	1/2	1/5	1/8	2/0 per foot.
	Superior Rope, made specially for these Pulley Blocks, extra.						
1043e	WESTON'S PATENT PULLEY, with Spocket Wheel, tested to..	1 1/2	2	3	4	tons.	
		48/0	70/0	84/0	105/0	per set.	
	Bright B.B. Chains	0/10	0/11	1/0	1/2	per foot.	

1043F PATENT HYDRAULIC SHIP JACK, CAST STEEL CYLINDER.

THIS JACK IS SUITABLE FOR LIFTING SHIPS, AND FOR ALL OTHER HEAVY PURPOSES.

As used in the Launch of the Great Eastern Steamship, "Leviathan."

The Cylinders of these Jacks are made of CAST STEEL.

No.	00	Will run out	Height when down.	Will Lift	Cast Iron.	Wrought Iron or Cast Steel.
		6 inches	12 inches	20 tons	Price.	Price.
"	0	7	14	35	£14 0 0	£15 0 0
"	1	7	14	50	17 0 0	18 0 0
"	1A	7	14	70	20 10 0	24 0 0
"	2	7	14	100	24 0 0	28 0 0
"	3	7	14	150	28 0 0	32 10 0
"	4	7	14	200	32 0 0	40 0 0
					48 0 0	58 0 0

If with Safety Valve attached, £3 extra.

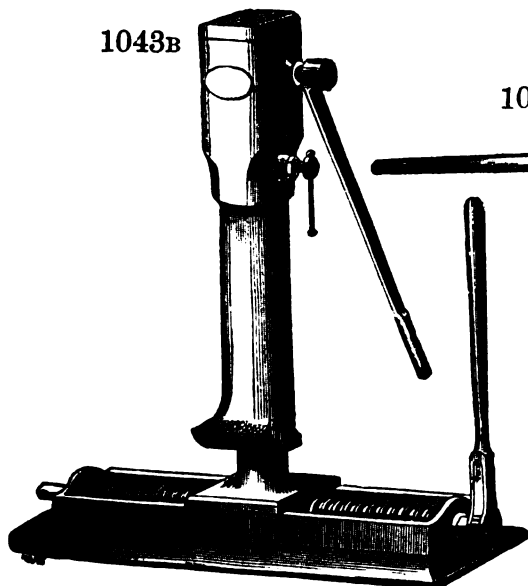
The pump and cistern can be detached from the ram, for action at any distance from the weight to be raised at an extra cost.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

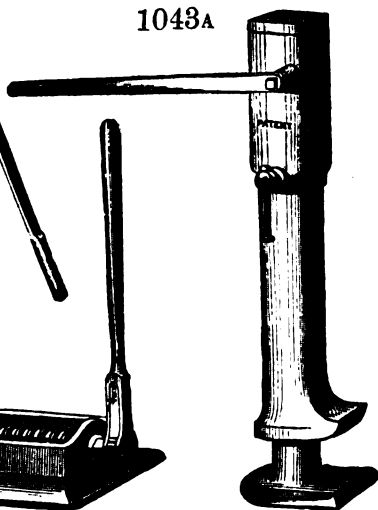
HYDRAULIC LIFTING JACKS.

1043B



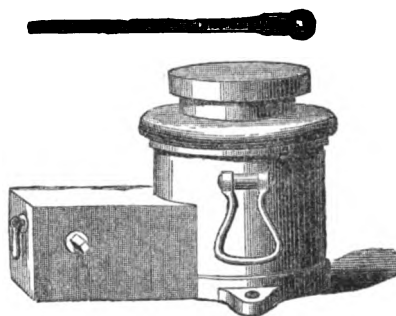
HYDRAULIC TRAVERSING JACK.

1043A



HYDRAULIC LIFTING JACK.

1043F



PATENT

HYDRAULIC SHIP JACK.

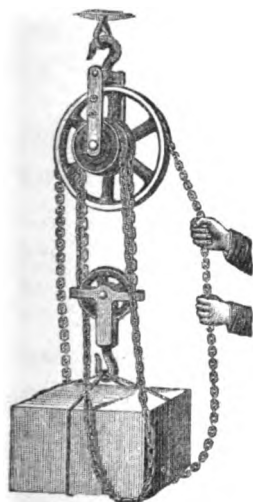
1043c



WESTON'S PATENT
DIFFERENTIAL
PULLEY BLOCK.

THIS IS WORKED BY
PULLING AT THE CHAINS.

1043E



WESTON'S
BLOCK, WITH SPOCKET WHEEL.

1043D



PULLEY, WITH GEAR.

NOTE.—In sending Blocks for repairs, or in ordering Parts to repair same, it is necessary to give the number stamped on the side strap of top frame.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

SELF-SUSTAINING ROPE PULLEY BLOCK

(HEWITT & GOFF'S PATENT).

ADVANTAGES.

1st.—Being worked with a rope, the motion is quicker and steadier than that of any chain block. The extreme simplicity of construction renders it absolutely impossible to get out of order, as is often the case with chain blocks, from the stretching of a link in the chain.

2nd.—It is self-sustaining, the eccentric brake being put in or out of action by moving the hand-rope to the right or left, or by pulling the rope outwards, so causing it to touch the guides A. The weight can be lowered or sustained at any desired point.

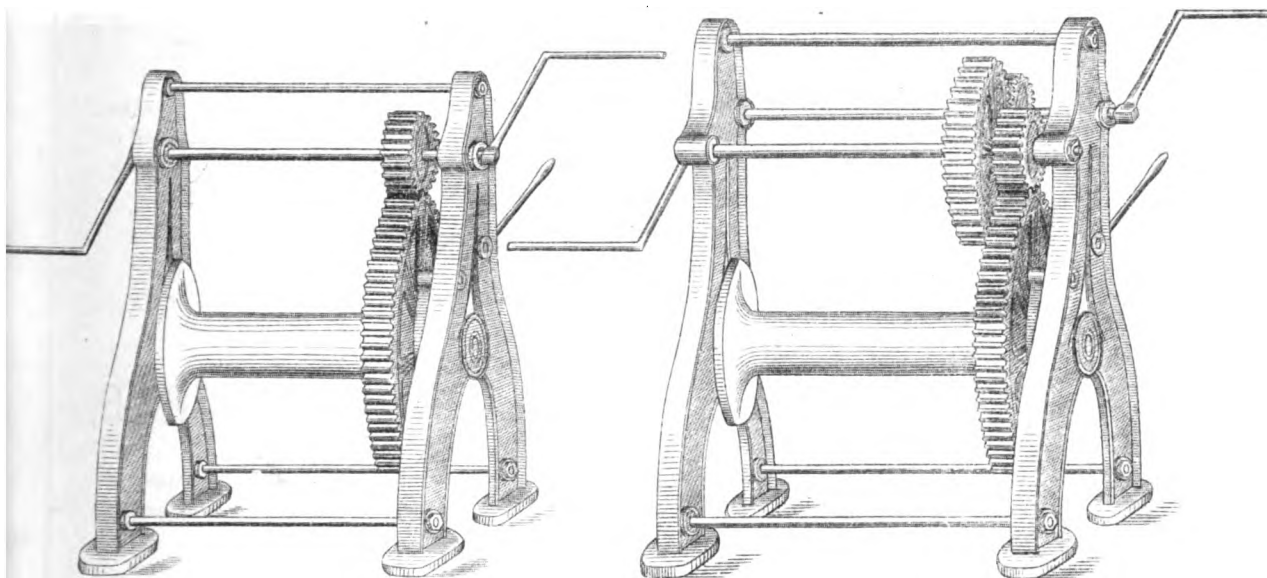
Diameter of Sheave	2½	3½	4	4½	5	6 in.
Width of Groove	¾	1	1	1½	1½	1 ..
Price of a Pair of 1 and 1 Sheave Blocks	10/9	12/6	14/6	18/0	22/0	25/0
Best Rope for 10 feet lift, per foot lift	0/2½	0/4½	0/6	0/6½	0/9	1/1
Price of a Pair of 1 and 2 Sheave Blocks	12/0	14/6	16/6	20/6	26/6	30/0
Best Rope for 10 feet lift, per foot lift	0/4	0/6	0/7½	0/9½	1/1	1/4½
Price of a Pair of 2 and 2 Sheave Blocks	13/3	17/0	18/9	24/0	31/6	34/6
Best Rope for 10 feet lift, per foot lift	0/4	0/7	0/9	1/1	1/3	1/10
Price of a Pair of 2 and 3 Sheave Blocks	15/0	18/0	21/6	26/6	34/6	39/0
Best Rope for 10 feet lift, per foot lift	0/4½	0/7½	1/0	1/3	1/5½	2/1
Price of a Pair of 3 and 3 Sheave Blocks	16/6	18/9	23/6	29/0	37/0	42/6
Best Rope for 10 feet lift, per foot lift	0/5	0/9½	1/2	1/6	1/7	2/6
Price of a Pair of 3 and 4 Sheave Blocks	17/6	20/9	25/0	32/6	42/6	50/0
Best Rope for 10 feet lift, per foot lift	0/6½	0/11	1/2	1/8	2/1	2/10
Price of a Pair of 4 and 4 Sheave Blocks	18/9	22/0	27/0	37/6	47/6	56/6
Best Rope for 10 feet lift, per foot lift	0/7½	1/1	1/6	1/11	2/4	3/4

To lower the Blocks, pull down the hand-rope an inch or two, this will release the brake, then allow the rope to run freely through the hand.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

SINGLE & DOUBLE PURCHASE CRAB WINCHES.



1030, *Single Purchase Crab.*

To Lift with 2 & 3 Sheave Pulley Blocks.	Without Break.	With Break.	Brass Bushed extra.
	£ s. d.	£ s. d.	£ s. d.
2 Tons.....	2 15 0	3 5 0	0 12 0
3 Tons.....	3 5 0	3 17 6	0 12 6
4 Tons.....	3 15 0	4 10 0	0 14 0
5 Tons.....	4 10 0	5 10 0	0 14 6
6 Tons.....	5 10 0	6 10 0	0 16 6
9 Tons.....	7 10 0	8 10 0	0 16 9

1031, *Double Purchase Crab.*

To Lift with 2 & 3 Sheave Pulley Blocks.	Without Break.	With Break.	Brass Bushed. extra.
	£ s. d.	£ s. d.	£ s. d.
4 Tons.....	5 10 0	6 2 6	0 17 6
5 Tons.....	6 0 0	6 15 0	0 17 6
6 Tons.....	7 0 0	7 17 6	0 17 6
9 Tons.....	9 0 0	10 5 0	1 1 6
12 Tons.....	10 5 0	11 10 0	1 1 6
15 Tons.....	13 10 6	14 12 6	1 12 0
18 Tons.....	17 5 0	18 10 0	1 12 0
24 Tons.....	20 10 0	22 10 0	1 12 0

The above can be made with wrought Iron Sides if required.

If with improved Screw Break, 15/0 each extra.

1032 TREBLE PURCHASE CRAB, to any power.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

WESTON'S PATENT "DESPATCH" AND "SAFETY" HOISTS.

1043 F Spocket Wheel, about 24 inches diameter. Between Bearers, about 16 inches.

The Patent "Despatch" Hoist is especially intended for sacks of corn, bales of leather, and other articles not liable to injury if let down quickly. The load remains suspended just where left, until released by reversing the action of the main wheel. The descent can be regulated by this wheel—the rope remaining stationary.

1043 G WESTON'S PATENT "SAFETY" HOIST.

1043 G Spocket Wheel about 24 inches diameter. Between Bearers, about 16 inches.

The Patent "Safety" Hoist is adapted for goods requiring care in lowering. The main wheel on being reversed causes the load to descend at a moderate speed, and can be kept going by an occasional pull at the rope. If the load be allowed to run, it will gradually check itself until it stops. If the rope is suddenly "let go" whilst lifting, the load will remain suspended just where it is.

Prices of the "Despatch" and "Safety" Hoist.

To lift up to 2½ cwt.....	£4 0s. 0d.
Chain, with 1 hook.....	0/6 per foot.
Rope, made especially	0/4
If required to lift 5 cwt., add a Single Sheave Pulley	5/0

WESTON'S PATENT SAFETY "BRACKET" CRAB, TO FIX TO A POST, WALL, OR FRAME.



1043 H

The load whilst rising or falling, remains stationary directly the handle is stopped or "let go." Lowering is effected by reversing action of the handle. No danger of hurting any one through handle "running down" as it cannot occur.

PRICES.

To lift 2½ cwt.....	£2 15 0
Single Sheave Pulley Block, to lead to load.....	0 5 0
If to lift 5 cwt. add a second Single Sheave Pulley.....	0 5 0
Chain, with 1 hook	0/6 per ft.

WESTON'S PATENT "DESPATCH" BRACKET CRAB.

1043 J

This is the same pattern as "Safety" Bracket Crab, "1043 H" illustrated, but is arranged to act the same as Hoist "1043 F" at same prices as "1043 H."

Any of the Hoists, "1043 F," "1043 G," "1043 H," and "1043 J," can be used with advantage in connection with a Jib Crane placed in any convenient situation.

WESTON'S PATENT DOUBLE LIFT SAFETY "1043K" HOIST.



1043 K

One man—with ordinary exertion—can lift the weight, and by hooking up the end of the chain, and using a single sheave block in the loop thus formed, double the weight may be lifted.

	2½ Cwt.	5 Cwt.
Price of Hoist.....	£3 0 0	£7 10 0
Best Tested Chain, per foot	0 0 7	0 0 10
Rope, per foot.....	0 0 4	0 0 4
One Sheave Pulley Block	0 5 0	0 7 6

The chief advantage of this Hoist is that it is self-sustaining. If the hand rope be let go the load will not run down, but remain suspended. The lowering is effected by pulling the rope on the other side of the wheel. The chain has two hooks, the one descending while the other ascends, so that when one hook has arrived at the top of the lift, the other will be at the bottom ready for a fresh load; thus no time is lost in running up and down the empty hook. Both hooks may be loaded at the same time if care is taken not to lift the heavier load from the hook before removing the lighter load.

PRICES OF STEEL WIRE.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

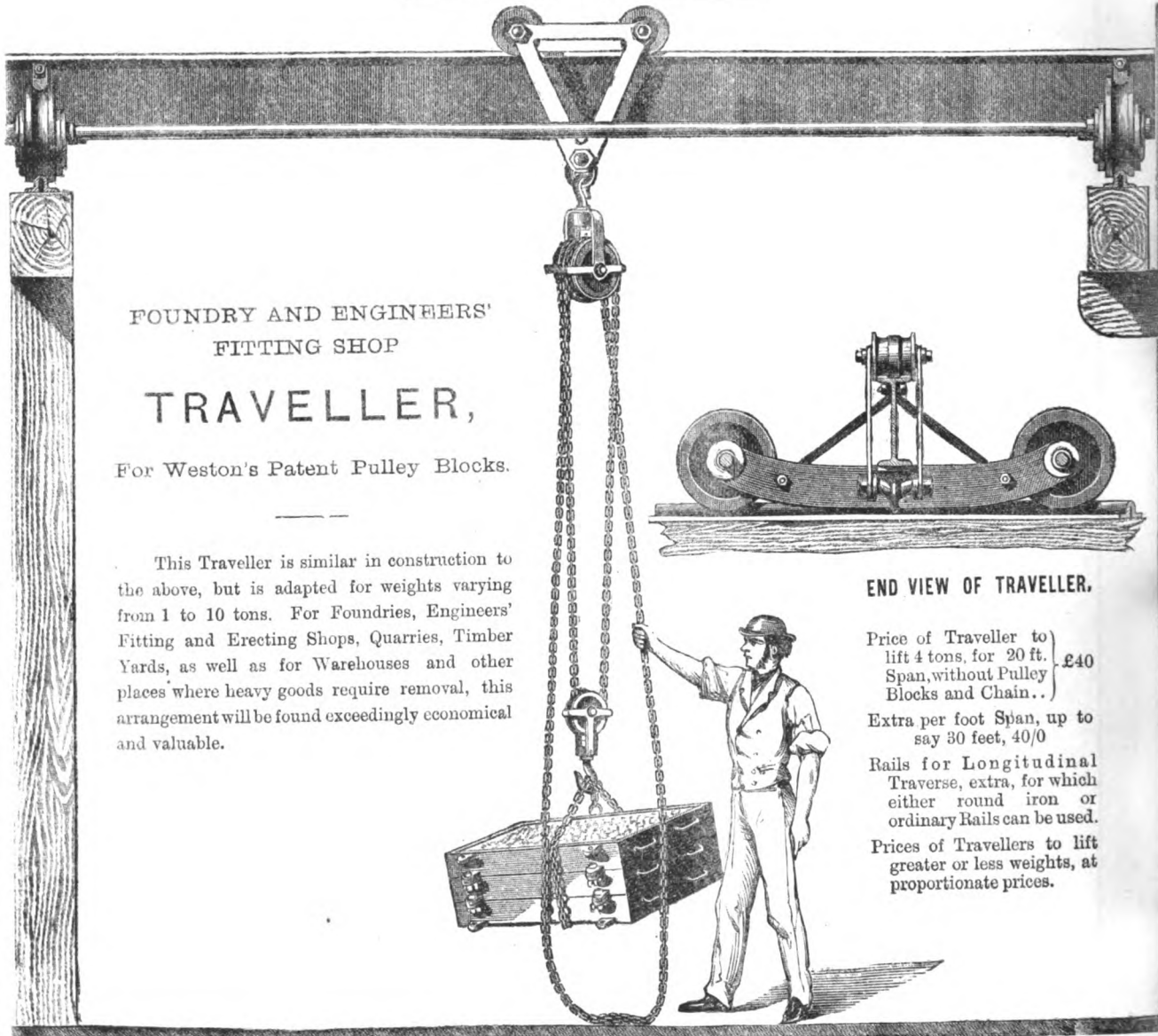
EDWARD BROOKES.

10 CWT.

ENGINEERS' SHOP TRAVELLER, FOR WESTON'S PULLEY BLOCKS.

Price of Traveller, for 10 feet span, as shown :
also, Brackets and Rails, for 10 feet Longitudinal
Traverse, without Pulley Blocks £10

Extra per foot Span 10/0
Extra per foot Longitudinal Traverse 5/6



FOUNDRY AND ENGINEERS'
FITTING SHOP

TRAVELLER,

For Weston's Patent Pulley Blocks.

This Traveller is similar in construction to the above, but is adapted for weights varying from 1 to 10 tons. For Foundries, Engineers' Fitting and Erecting Shops, Quarries, Timber Yards, as well as for Warehouses and other places where heavy goods require removal, this arrangement will be found exceedingly economical and valuable.

END VIEW OF TRAVELLER.

Price of Traveller to lift 4 tons, for 20 ft. Span, without Pulley Blocks and Chain.. £40

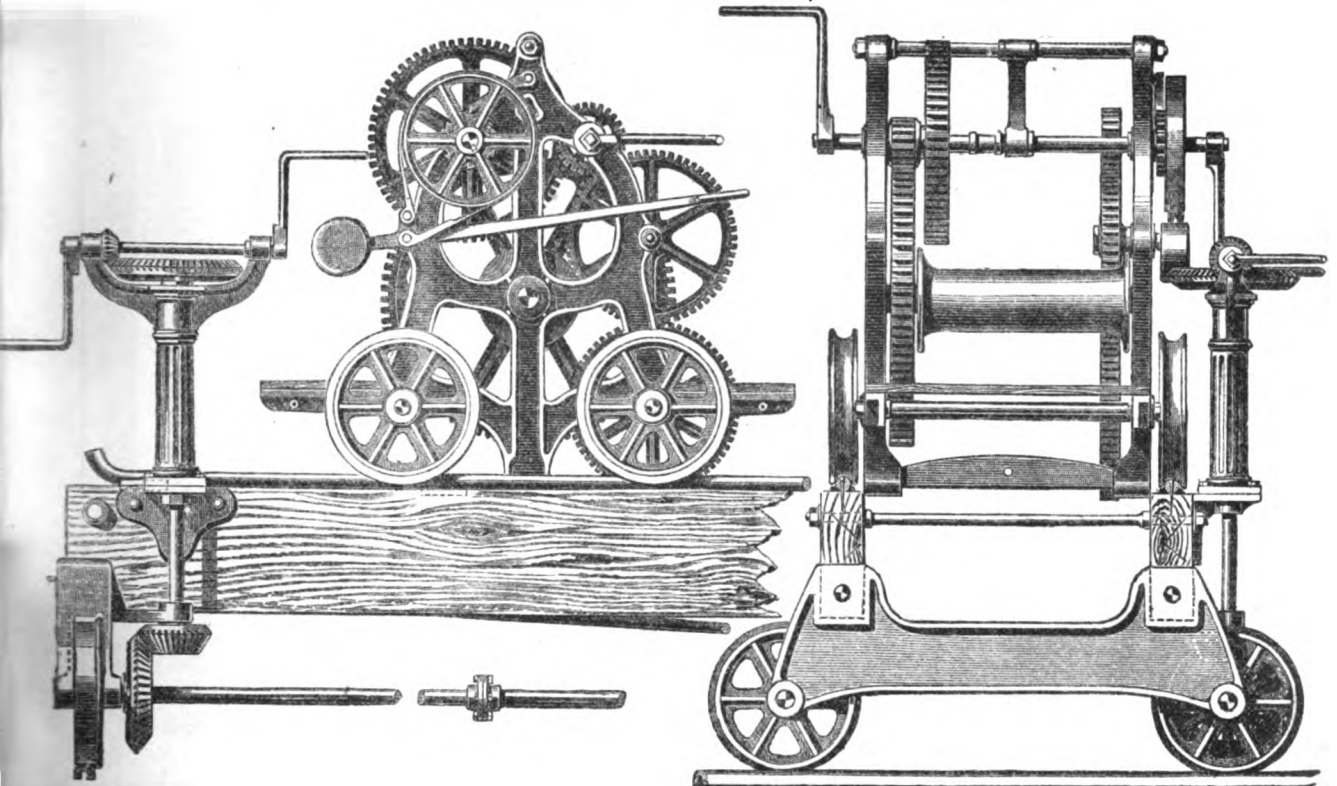
Extra per foot Span, up to say 30 feet, 40/0

Rails for Longitudinal Traverse, extra, for which either round iron or ordinary Rails can be used.

Prices of Travellers to lift greater or less weights, at proportionate prices.

EDWARD BROOKES.

IMPROVED OVERHEAD TRAVELLING CRANE, FOR HAND POWER.



Estimates for either iron or wood gantry, tie bolts for same, iron tension rods, shaft to connect the two carriages, and travelling rails, can be supplied on receiving particulars of the span. For tropical countries, wrought-iron girders are recommended in preference to wood.

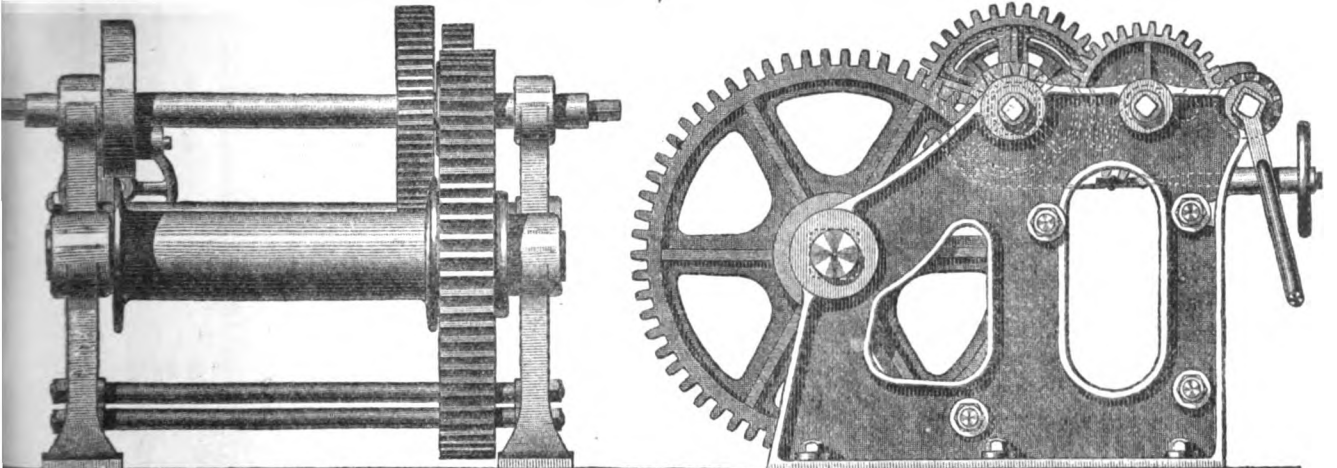
CRABS, WITH BREAK, AND WOOD PLATFORM.			
To lift with Single Sheave Block.	PRICE.	Cwt.	Weight. Qrs. Lbs.
4 Tons	£80	17	0 0
6 "	£85	20	0 0
12 "	£44	29	0 0

LONGITUDINAL TRAVELLING GEAR, AND TWO GANTRY CARRIAGES.

PRICE.	Weight. Cwt. Qrs. Lbs.
£15 10	11 0 0
£18 10	15 2 0
£22 10	18 0 0

Brass Bushing Crabs, 42/0, 55/0, and 70/0 each extra.

POWERFUL HOISTING CRABS, WITH IMPROVED BREAK.



SUITABLE FOR GOVERNMENT AND RAILWAY USE.

SCHEDULE FOR GOVERNMENT SERVICE														
		To lift direct from Barrel.	Size of Barrel.		Weight.			PRICE With Break.	If with Weston's		Brass Bushing, extra.			
			In.	In.	Cwt.	Qrs.	Lbs.		Patent Break.					
No. 20A	12 Tons	.....	30 by 8	.....	25	0	0	.....	£35 10	.....	£34 10	.....	£3 10
" 21B	18 "	.....	42 by 9	.....	35	0	0	.....	£51 10	.....	£56 10	.....	4 0

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

ENGINEERS' TOOLS.—Continued.

CAST STEEL TURNING TOOLS, FOR IRON.

Dis- count.	No. 973A	
		Per Set of 26 Tools, as per Engravings 1 to 26
		Ditto 72 ditto
		Per dozen Tools as per Engravings, 1 to 23
		Ditto do. 24 to 26

CAST STEEL BORERS,

For all kinds of Metals, Warranted to Standard Gauge, Half-round or Rose Bits.

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$
3/0	3/6	4/0	5/0	6/0	8/0	10/0	12/0	14/0	16/0	18/0	20/0	22/0
2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	3	inches.	
24/0	26/0	28/0	30/0	33/0	36/0	40/0	45/0	50/0	each.			

Larger to advance 5/0 per $\frac{1}{8}$ inch.

STEEL SQUARES.

Solid Back Squares, 1/0 per inch. Rim Squares, 1/3 per inch. Plain Flat Squares, 0/8 per inch.

IRON BRACES.

Improved Scotch Iron Braces, Warranted of Low Moor Iron.

	First.	Second.	Third Quality.	
With Lignum Heads	104/0	96/0	88/0	per doz.
Without Heads	88/0	80/0	72/0	"

Scotch Iron Braces, of Good Malleable Iron, with Wrought Iron Spindles.

	First.	Second.	Third Quality.	
With Heads	80/0	70/0	60/0	per doz.
Without Heads	64/0	56/0	48/0	"

Common Iron Braces, with Wood Heads.

No.	1	2	3	4	5	6	
	12/6	14/0	18/0	24/0	32/0	40/0	per dozen.

Corner Brace, with Bevel Wheels, 135/0 per dozen.

	No.	1	2	3	4	all 12 inches long.
Archimedian Braces		7/0	8/0	9/0	10/0	each.

CIRCULAR GAUGES (INTERNAL AND EXTERNAL).

Made to Standard Measure.

		£	s.	d.
982	No. 1 Set.— $\frac{1}{8}$ to 1 inch diameter, 15 Sizes, increasing by $\frac{1}{16}$ inch	10	10	0
	Case for ditto	1	10	0
983	No. 2 Set.— $\frac{1}{4}$ to 2 inch. diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch	12	12	0
	Case for ditto	1	15	0
984	No. 3 Set.— $\frac{1}{2}$ to 4 inch. diameter, 8 Sizes, increasing by $\frac{1}{4}$ inch	15	15	0
	Case for ditto	2	0	0

NUT GAUGES.

985	No. 1 Set.— $\frac{1}{8}$ to 1 inch diameter, 7 Sizes, increasing by $\frac{1}{16}$ inch	2	5	0
986	No. 2 Set.— $\frac{1}{4}$ to 2 inch. diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch	3	10	0
987	No. 3 Set.— $\frac{1}{2}$ to 4 inch. diameter, 8 Sizes, increasing by $\frac{1}{4}$ inch	5	5	0

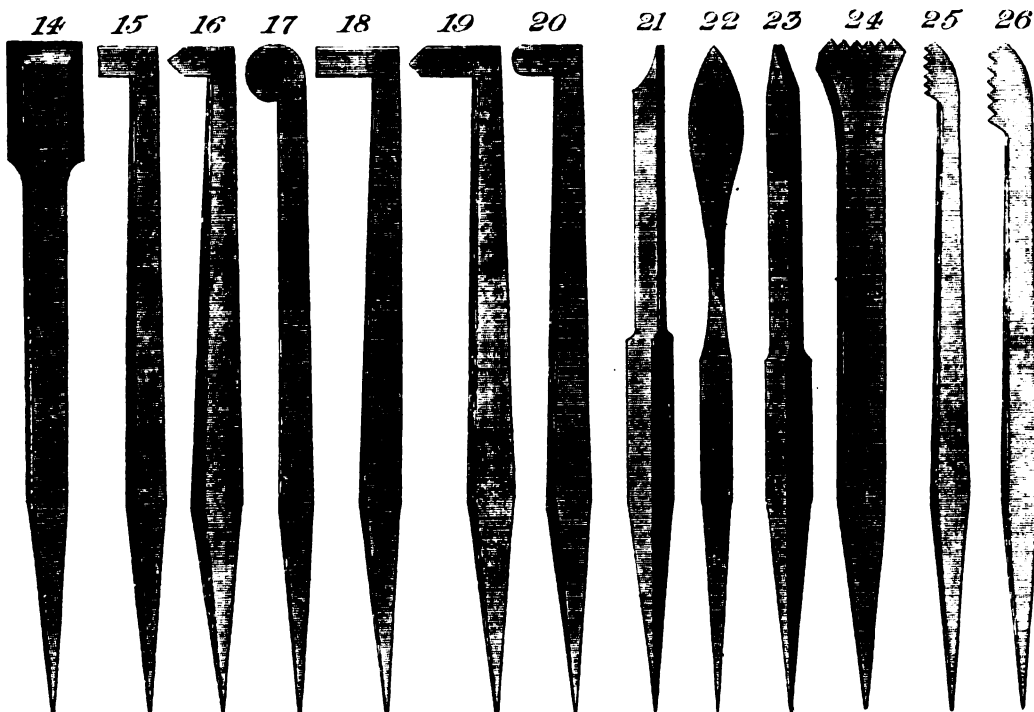
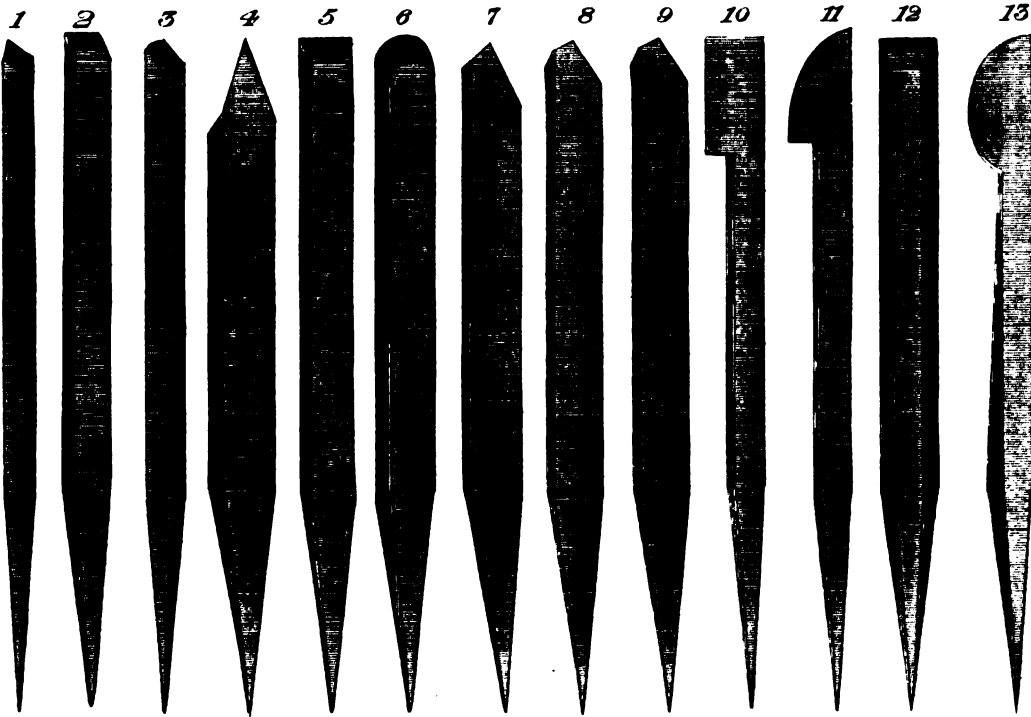
NORTON'S SPINDLE GAUGES.

388	No. 1 Set.— $\frac{1}{8}$ to 1 inch diameter, 15 Sizes, increasing by $\frac{1}{16}$ inch	2	0	0
989	No. 2 Set.— $\frac{1}{4}$ to 1 $\frac{1}{2}$ inch diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch	2	5	0
990	No. 3 Set.— $\frac{1}{2}$ to 2 $\frac{1}{2}$ inch. diameter, 8 Sizes, increasing by $\frac{1}{4}$ inch	3	0	0
991	No. 4 Set.— $\frac{3}{8}$ to 4 inch. diameter, 8 Sizes, increasing by $\frac{1}{8}$ and $\frac{1}{4}$ inch	4	0	0

SLIDE AND OTHER GAUGES, MADE TO ORDER.

Marking in Inches, Millimeters, Rhineland, or any other measure.

992	PARALLEL STEEL STRAIGHT EDGES, OR WINDING STRIPS.												
	12	15	18	21	24	30	36	42	48	60	72	inches long.	
	18/0	22/0	30/0	36/0	43/0	50/0	60/0	70/0	90/0	110/0	140/0	each.	
993	Straight Edges.—From Sheet Steel, No. 16 Gauge, 0/5 per inch.												
	10 by 6		12 by 8		15 by 10		18 by 12		24 by 18		30 by 20		36 by 20 in.
993A	Surface Plates..		32/0	50/0	80/0	106/0	180/0	290/0	370/0 each.				
			4	5	6	8	10	12	inches high.				
993B	Scribing Block.....			8/0	10/0	12/0	16/0	20/0	24/0	each.			

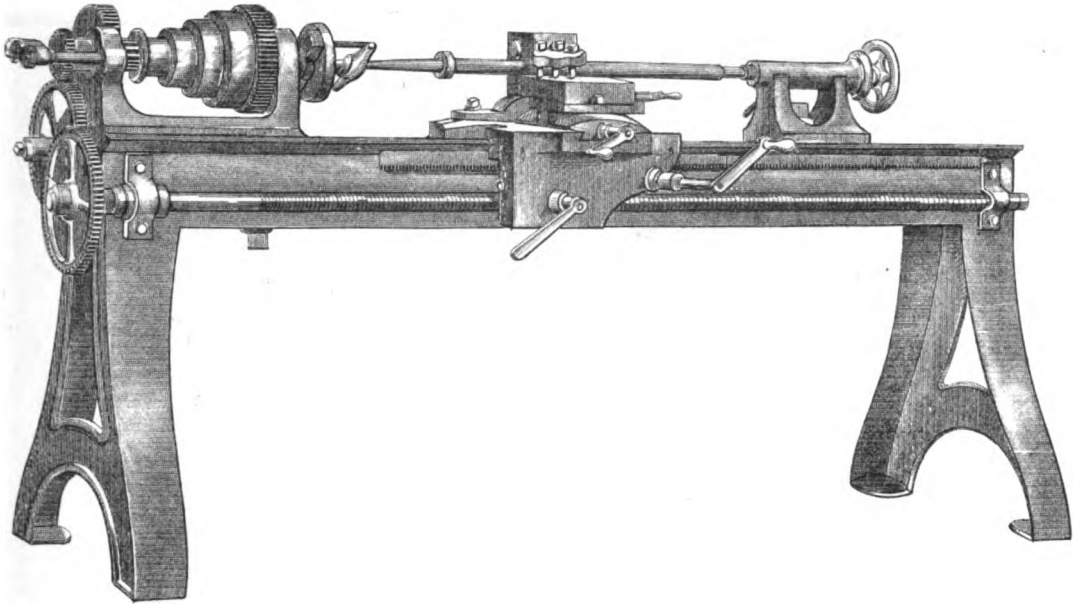
EDWARD BROOKES.*Cast Steel Turning Tools for Iron.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

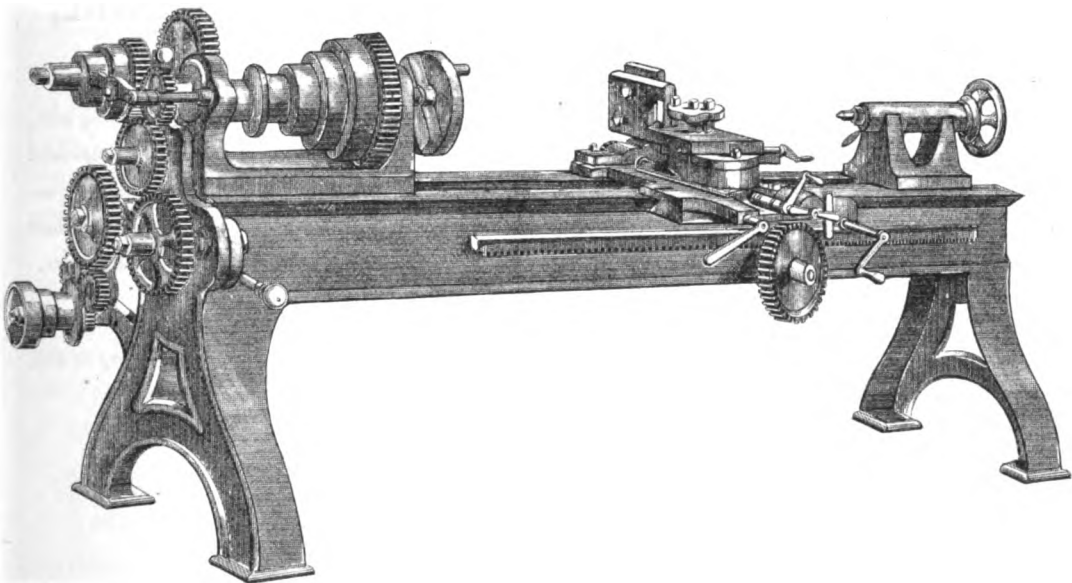
ENGINEERS' TOOLS.—Continued.

Dis- count.	No.	SELF-ACTING SLIDE LATHES.																						
	998	Double-power Gear Headstocks, two Face Plates, Change Speed Wheels, for Sliding and Reversing Motion, Self-action for Transverse Surface Motion for all above 9 in. Centres; Adjustable Back Stay, Top Driving Apparatus and Screw Keys, with Supporting Stays and Tumbling Motion for Long Beds, and all the most recent improvements :—																						
		Height of Centres.....	6	7	8	9	10	12	14		16	18	20	22	24	inches.								
		Length of Bed	6	7	8	9	10	12	14	16	18	21	24	25	26	feet.								
		Length between the Centres ..	3½	4½	5	5½	6	8	10	11½	13	15	17½	..	..	..	..			
		Price :—Complete for Sliding ..	£45	£50	£65	£85	£90	£100	£125	..	..	..	..	..	..	..	each.
		Leading Screw & Change Wheels extra when for Screw Cutting	£6	7	8	10	12	14	18	..	..	..	..	..	..	..	..
		Longer or Shorter Bed, per foot	25/0	30/0	35/0	40/0	50/0	60/0	70/0	..	..	..	..	..	..	..	..
		Any of the above Lathes made with Fixed or Sliding Breaks, or Gaps in the Bed to admit a larger diameter on the Face Plate.																						
		HAND LATHES.																						
		Consisting of Two Headstocks, Catch Plate, Face Plate, Rest Socket, and Top Cone Pulley :—																						
		Height of Centres.....	6	7	8	9	10	12	14	15	16	18	20	inches.										
	999	Single Speed Headstocks	£8	£9	£10	10	£12	£14	£18	£22	£24	£30	£40	£50	each.									
	1000	Double-power Gear Headstocks..	£15	16	22	0	25	28	35	45	60	65	75	90	..									
		Beds, Planed to fit Headstocks, and fitted with Standards ..	20/0	25/0	30/0	35/0	40/0	50/0	60/0	70/0	80/0	90/0	100/0	pr. ft.										
		Top Driving Apparatus, Two Hangers, Shaft, and Pulley..	50/0	60/0	70/0	80/0	90/0	110/0	130/0	140/0	150/0	160/0	180/0	each.										
	1001	Compound Slide Rests.....	£6	£7	£8	£9	£10	£12	£14	£16	£18	£21	£25	..										
		Cup Chucks, or Bell Chucks.....	8/0 per inch diameter.																					
		Four Screw Chucks.....	10/0																					
		Three-jawed Universal Chucks.....	14/0																					
	1001A	Amateur Lathe, with Planed Metal Beds, Standards, Crank and Driving Wheel, Hand Rest, Face Plate, and Two Centres, £6 14s.																						

EDWARD BROOKES.



998 Self-acting Slide Lathe, 6 In Centres &c



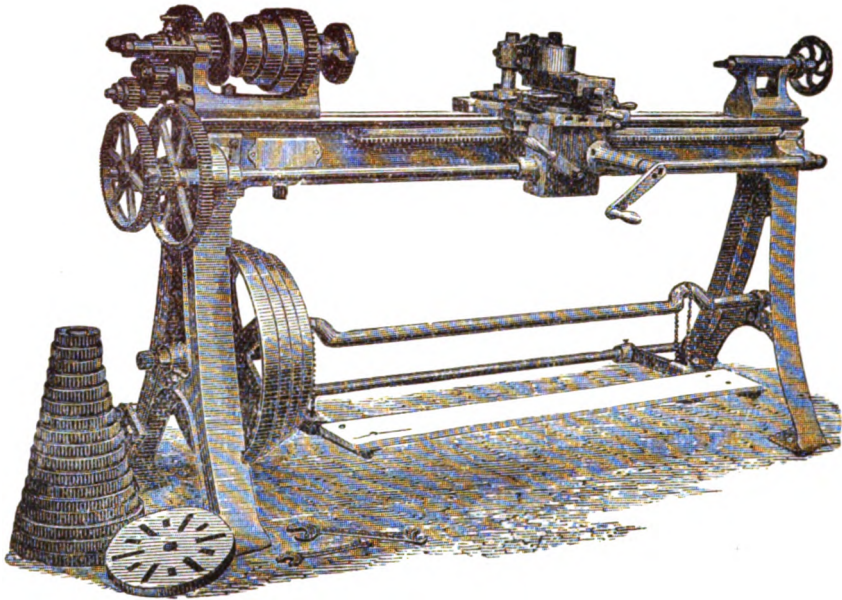
998 Self-acting Slide Lathe, 8 In Centres, Reverse Motion & Self-action For Transverse Surface Motion &c.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 1.

5-IN. CENTRE SLIDE AND SCREW CUTTING TREADLE LATHE,

5 FEET BED,

With double-gear headstocks ; fast head, with cast steel spindle ; gun metal steps ; conical necks ; reversing gear, with malleable iron wheels for cutting right and left-hand threads ; cast-iron planed bed ; guide screw of standard pitch, with double clip-nut to clip screw at top and bottom ; carriage to move back by hand, by rack and pinion ; compound slide rest and steady rest on saddle ; full set of 22 change wheels and index plate affixed to bed to show their use ; two face plates, largest, 9 in. dia., smallest, 5½ in. dia. ; treadle motion, with double crank shaft ; screw keys.

DIMENSIONS.

Bed 7 in. broad on face and 6 in. deep ; cone of fast head has 4 speeds, each 1½ in. broad ; largest, 7½ in. dia., smallest, 3 in. ; gearing wheels 1½ in. broad and ½ in. pitch ; largest, 7½ in. dia., smallest, 2½ in. dia.

Weight, 10 cwt.

Price, £

If made to slide and surface by back shaft as well as with screw cutting gear, price, £

If made to slide and surface by back shaft only, £

Price per foot if required with a longer or shorter bed, £

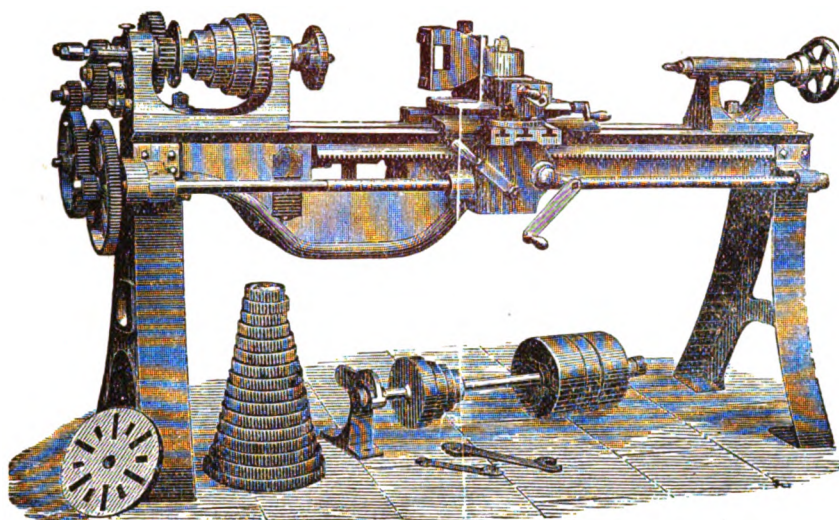
Driving Pullies, 8½ in. dia., 2 in. broad ; speed of overhead motion about 125 revolutions per minute.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 2.

6-INCH CENTRE SLIDE AND SCREW CUTTING GAP LATHE, 6 FEET BED,

With double-gear headstocks; fast head, with cast steel spindle; gun metal stops; conical or parallel necks, as preferred; reversing motion for cutting right and left hand screws; cast-iron planed bed, having a gap with removable cover to admit large diameters; guide screw of standard pitch, full length of bed, with double clip-nut to clip screw at top and bottom; carriage to move back by hand, by rack and pinion, compound slide rest, adjustable for surfacing and turning, or boring conical; adjustable back stay; full set of 22 change wheels and brass index plate affixed to bed to show their use; three face plates—20 in., 10½ in., and 9 in. diameter; overhead motion, and screw keys.

DIMENSIONS.

Bed 8 in. broad on face and 7 in. deep; the gap is 6 in. deep and 9 in. wide; cone of fast-head has 4 speeds, each 1½ in. broad, diameter of largest 8 in., smallest 3½ in.; the gearing wheels are 1½ in. broad and ½ in. pitch; diameter of largest 8½ in., smallest 3½ in.; will admit in gap, 2 ft. 2 in. diameter, between centres 3 ft. 3 in.; driving pulleys 8½ in. diameter, 2 in. broad; speed of overhead motion 125 revolutions per minute.

Weight, 14 cwt. 2 qrs. Price, £

If made to slide and surface by back shaft as well as with the screw cutting gear, £

If made to slide and surface by back shaft only, £

No screw cutting apparatus.

If made to slide and screw cut, and surface by hand, £

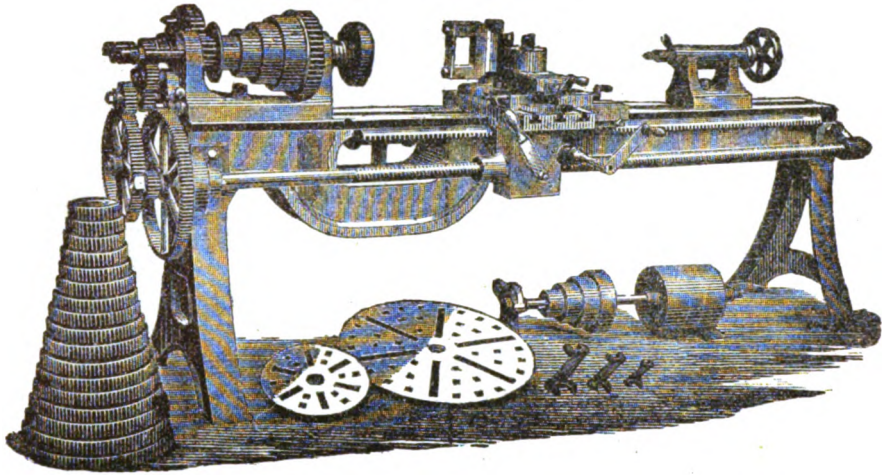
Price per foot if required with a longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 3.

7-IN. CENTRE SLIDE AND SCREW CUTTING GAP LATHE, 8 FEET BED,

With double-gear headstocks; fast head, with cast steel spindle; gun metal steps; conical necks; reversing gear, with malleable iron wheels for sliding right and left hand; cast iron planed bed, having a gap with removable cover to admit large diameters; guide screw of standard pitch full length of bed, with double clip nut, to clip screw at top and bottom; carriage to move back by hand, by rack and pinion; compound slide rest, adjustable for surfacing and turning or boring conical; adjustable back stay; full set of 22 change wheels and brass index plate affixed to bed to show their use; three face plates—2 ft., 1 ft., and 7 in. diam.; overhead motion, and screw keys.

DIMENSIONS.

Bed $10\frac{1}{2}$ in. broad on face and $7\frac{1}{2}$ in. deep; gap 7 in. deep, $9\frac{1}{2}$ in. wide, will admit in gap 2 ft. 4 in. diam., between centres 4 ft. 9 in; cone of fast head has 4 speeds, each 2 in. broad; diam. of largest $8\frac{1}{2}$ in., smallest $3\frac{1}{2}$ in.; gearing wheels $1\frac{1}{2}$ in. broad and $\frac{8}{16}$ in. pitch; largest $9\frac{1}{2}$ in. diam., smallest $3\frac{1}{2}$ in. diam; speed of overhead motion 120 revolutions per minute

Weight 19 cwt. Price £

If made to slide and surface by back shaft as well as with the screw cutting gear, £

If made to slide and surface by back shaft only, £

No screwing apparatus.

If made to slide and screw cut, and surface by hand, £

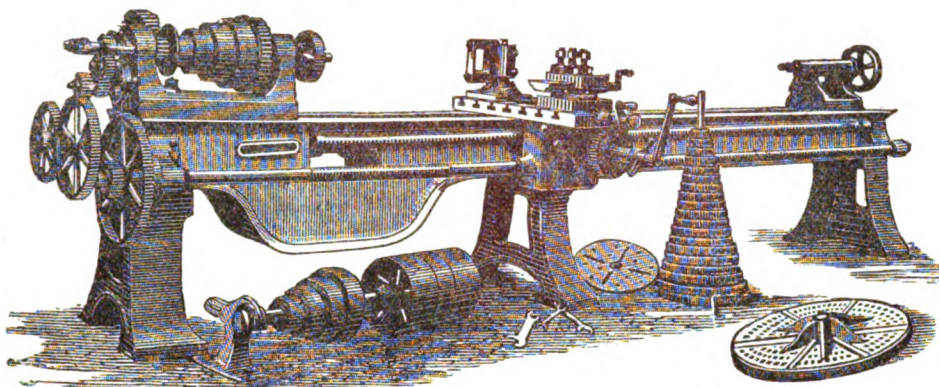
Price per foot if required with a longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 4.

IMPROVED SELF-ACTING SLIDE SURFACING AND SCREW CUTTING GAP LATHE, 8 INCH CENTRE, 10 FEET BED.

With powerful double-gear headstocks; fast head, with cast steel spindle; gun metal steps; loose head, with slide saddle for turning taper, conical, or parallel necks, as preferred; reversing gear, with malleable iron wheels for cutting right and left-hand screws; cast-iron planed bed, having a gap with removable cover to admit large diameters; guide screw of standard pitch, full length of bed, with double clip nut to clip screw at top and bottom; carriage to move back by hand, by rack and pinion; compound slide rest, adjustable for surfacing and turning, or boring conical; adjustable back stay; set of 22 change wheels and brass index plate affixed to bed to show their use; three face plates—2 ft. 6 in., 1 ft. 2 in., and 7 in. diameter; overhead motion, and screw keys.

DIMENSIONS.

Bed is $12\frac{1}{2}$ in. broad on face and $9\frac{1}{2}$ in. deep; the gap is 13 in. wide and 9 in. deep; will admit in gap 2 ft. 8 in. diameter, between centres 6 ft. 3 in.; cone of fast head has 4 speeds, each $2\frac{1}{2}$ in. broad; diameter of largest $10\frac{1}{2}$ in., smallest 4 in.; the gearing wheels are $2\frac{1}{2}$ in. broad and $\frac{3}{4}$ in. pitch; diameter of largest $11\frac{1}{2}$ in., smallest 4 in.; driving pulleys, 10 in. diameter, 3 in. broad; speed of overhead motion, about 120 revolutions per minute.

Weight, 29 cwt. Price, £

If made without the surface motion by back shaft, fitted to slide and screw from guide screw, £

If made to slide and surface by back shaft and without the screw cutting gear, £

If made to slide and screw cut, and surface by hand, £

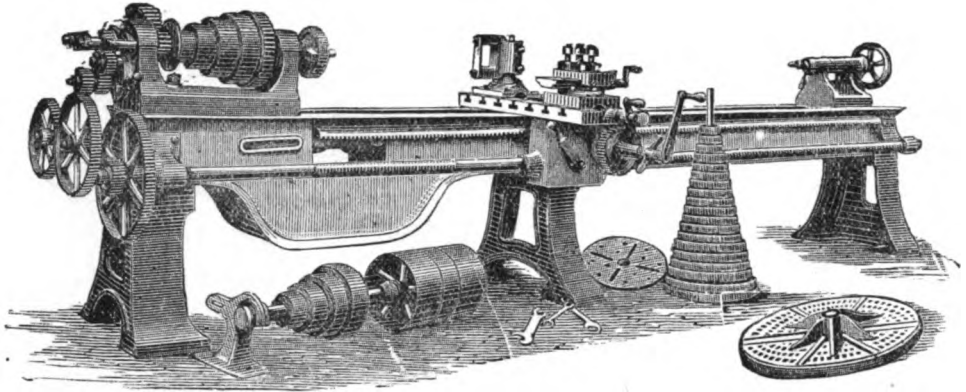
Price per foot if required with a longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 5.

IMPROVED SLIDE SURFACING AND SCREW CUTTING GAP LATHE,

9 INCH. CENTRES, 10 FEET 6 INCH. BED,

With powerful double-gear headstocks; fast head, with cast-steel spindle; gun metal steps; conical or parallel necks, as preferred; loose head, with slide saddle for turning taper; reversing gear, with malleable iron wheels, for sliding right and left-hand; cast-iron planed bed, having a gap with removable cover to admit large diameter; guide screw of standard pitch, full length of bed, with double clip nut to clip screw at top and bottom; carriage to move back by hand, by rack and pinion; compound slide rest, adjustable for surfacing and turning, and boring conical; adjustable back stay; full set of 22 change wheels and brass index plate affixed to bed to show their use; three face plates—largest, 2 ft. 6 in., 1 ft. 5 in., and 8 in. diameter, to slide and surface by back shaft; overhead motion, with three pulleys for two straps, for cutting right and left-hand threads; and screw keys.

DIMENSIONS.

Bed is $13\frac{1}{2}$ in. broad on face, and $9\frac{1}{2}$ in. deep; gap is $12\frac{1}{2}$ in. wide, and $10\frac{1}{2}$ in. deep; the cone of fast head has 5 speeds, each 3 in. broad; largest speed $12\frac{1}{2}$ in. diameter, smallest speed $4\frac{1}{2}$ in. diameter; gearing wheels are 3 in. broad, and $\frac{7}{8}$ in. pitch; diameter of largest 13 in., smallest $4\frac{1}{2}$ in.; driving pulleys, 12 in. diameter, 3 in. broad; speed of overhead motion, about 120 revolutions per minute; will admit in gap 3 ft. 3 in. diameter.

Weight, 35 cwt. Price, £

If made without the surface motion by back shaft, to slide and screw cut from leading screw, price, £

If made to slide and screw cut, and surface by hand, £

If made to slide and surface by back shaft, and without the screw cutting gear, £

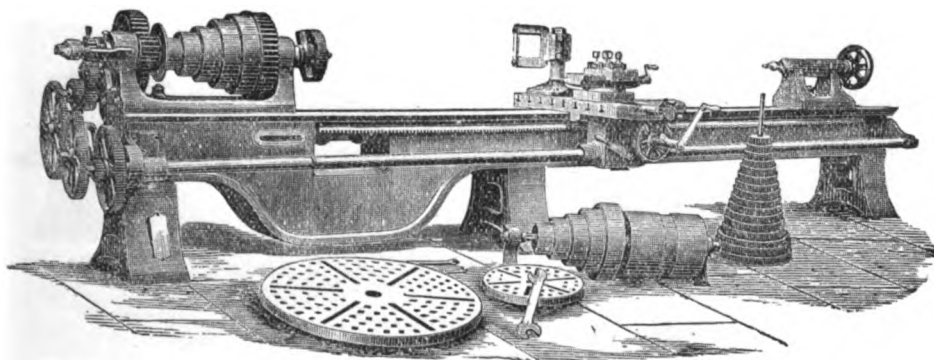
Price per foot, if required with longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 6.

SELF-ACTING SLIDE SURFACING & SCREW CUTTING GAP LATHE,

With 10 in. centres, 13 ft. gap bed ; powerful double-gear headstocks ; loose head, with slide saddle for turning taper ; with cast-steel spindle ; gun metal steps ; conical or parallel neck, as preferred ; reversing motion, for cutting right or left-hand screws ; cast-iron planed bed, having a gap with removable cover to admit large diameters ; guide screw of standard pitch, full length of bed, with double clip nut, to clip screw at top and bottom ; carriage to move back by hand, by rack and pinion ; compound slide rest, adjustable for surfacing or turning, or boring conical ; adjustable back stay, to slide and surface by back shaft ; full set of 22 change wheels and brass index plate affixed to bed to show their use ; three face plates ; overhead motion, and screw keys.

DIMENSIONS.

Bed is $15\frac{1}{2}$ in. broad on face and $10\frac{1}{2}$ in. deep ; the gap is $10\frac{1}{2}$ in. deep and 15 in. wide ; the cone of fast headstock has 5 speeds, each 3 in. broad ; diameter of largest speed $12\frac{1}{2}$ in., diameter of least speed $4\frac{1}{2}$ in. ; gearing wheels are 3 in. broad and $\frac{3}{8}$ in. pitch ; diameter of the largest wheel $13\frac{1}{2}$ in., diameter of the least wheel $4\frac{1}{2}$ in. ; will admit in gap 3 ft. 4 in. diameter, and between centres 8 ft. ; driving pulleys, 12 in. diameter, $3\frac{1}{2}$ in. broad ; speed of overhead motion, about 120 revolutions per minute.

Weight, 45 cwt. Price, £

If made without the surface motion by back shaft, fitted to slide and screw cut from leading screw, price, £

If made to slide and surface by back shaft, and without the screw cutting gear, price, £

If made to slide and screw cut, and surface by hand, price, £

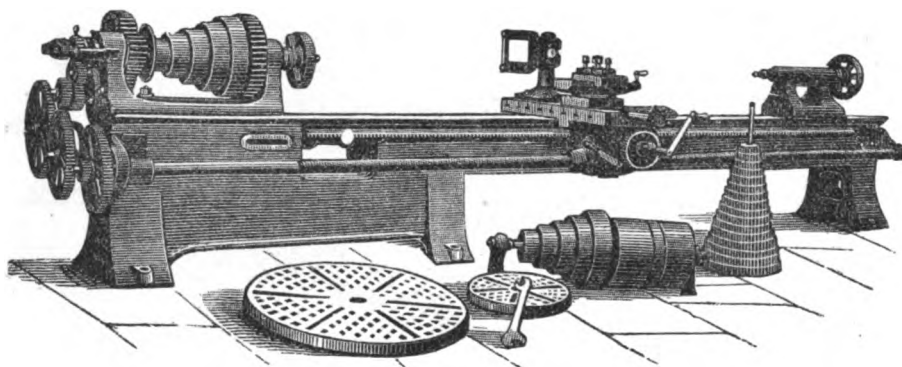
Price per foot if required with longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES,

ENGINEERS' TOOLS.—Continued.



No. 7.

SELF-ACTING SLIDE, SURFACING, AND SCREW CUTTING GAP LATHE,

With 12 in. centres ; 16 ft. gap bed ; powerful double-gearred headstocks ; loose head, with slide saddle for turning taper ; with cast steel spindle ; gun-metal steps ; conical or parallel neck, as preferred ; reversing motion, for cutting right or left hand screws ; cast iron planed bed, having a gap with removable cover to admit large diameters ; guide screw of standard pitch full length of bed, with double-clip nut to clip screw at top and bottom ; carriage to move back by hand, by rack and pinion ; compound slide rest, adjustable for surfacing and turning, or boring conical ; adjustable back stay, to slide and surface by back shaft ; full set of 22 change wheels and brass index plate affixed to bed to show their use ; three face plates, overhead motion, and screw keys.

DIMENSIONS.

Bed is 18½ in. broad on face and 12 in. deep ; the gap is 13½ in. deep and 18 in. wide ; the cone of fast headstock has 5 speeds, each 3 in. broad ; diameter of largest speed 14½ in., diameter of least speed 5 in. ; gearing wheels are 3 in. broad and 1 in. pitch ; diameter of the largest wheel 15½ in., diameter of the least wheel 5 in. ; will admit in gap 4 ft. 4 in. diameter, and between centres, 11 ft. ; driving pulleys, 16 in. diameter, 3½ in. broad ; speed of overhead motion, about 100 revolutions per minute.

Weight, 76 cwt. Price, £

If made without the surface motion by back shaft, and fitted to slide and screw, cut from the leading screw, price, £

If made to slide and surface by back shaft, and without the screw cutting gear, price, £

If made to slide and screw cut, and surface by hand, price, £

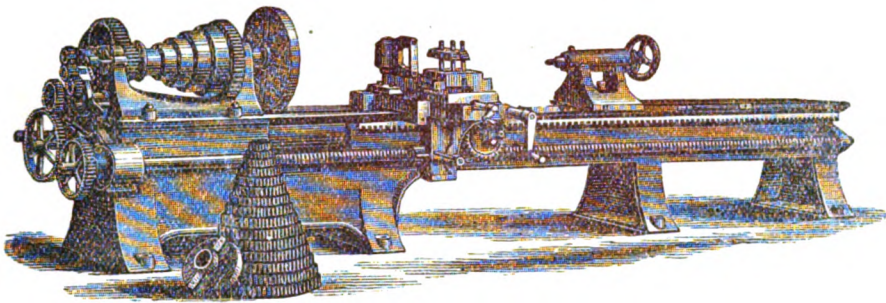
Price per foot if required with longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, & GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 8.

SELF-ACTING, SLIDING, SURFACING, AND SCREW CUTTING GAP LATHE,

With 14 in. centres, 16 ft. gap bed ; with double-gearred headstocks ; loose head, with slide saddle for turning taper ; cast steel spindle, running in parallel gun metal bearings ; reversing motion, for cutting right and left-hand screws ; guide screw of standard pitch, full length of bed ; double clip nut, to clip screw at top and bottom ; saddle, with hand motion, for quick return ; compound slide rest, adjustable for surfacing and turning, or boring conical ; adjustable back stay ; full set of 22 change wheels and brass index plate affixed to bed to show their use ; three face plates, to slide and surface by back shaft ; overhead motion, and screw keys.

DIMENSIONS.

Bed is 21 in. broad and 13 in. deep ; gap 20 in. wide and 13 in. deep ; will admit in gap 4 ft. 6 in. diameter, and between centres, 10 ft. ; cone of fast head has 5 speeds, each $3\frac{1}{2}$ in. broad ; diameter of largest speed, $16\frac{1}{2}$ in. ; diameter of smallest speed, $5\frac{1}{2}$ in. ; gearing wheels are $3\frac{1}{2}$ in. broad and $1\frac{1}{2}$ in. pitch ; diameter of largest, $17\frac{1}{2}$ in. ; diameter of smallest, 6 in. ; driving pulleys 18 in. diameter, $4\frac{1}{2}$ in. broad ; speed of overhead motion, about 90 revolutions per minute.

Weight, 95 cwts. Price, £

If made to surface by back shaft, no screw cutting apparatus, £

If made without surface motion by back shaft, and fitted to slide and screw-cut, from the leading screw, £

If made to slide and screw cut, and surface by hand, £

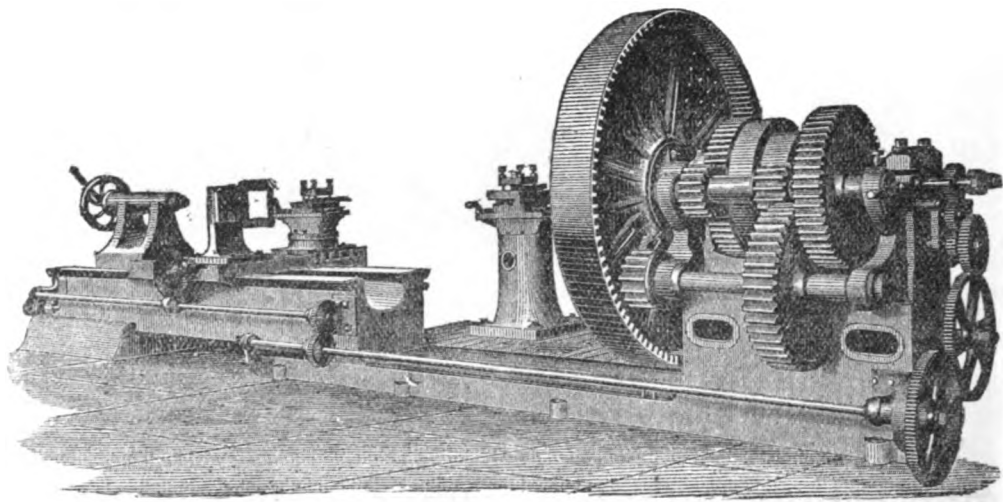
Price per foot, if required with longer or shorter bed, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 5.

IMPROVED SELF-ACTING SLIDE & SURFACING BREAK LATHE,

20 in. centres ; 12 feet slide bed ; treble power geared by large face plate, with internal wheel on back, fitted to slide and surface by back shaft ; compound slide rest and steady rest on saddle. The fast head rests upon strong planed base plate, and the slide bed, which can be made any length required, is moved upon the base plate by means of screw at the end of bed in adjusting the width of gap. A strong planed foundation plate is bolted in front, with strong pillar, fitted with extra compound slide rest for surfacing large diameters. Loose head, self-acting for boring by ratchet gear, and fitted with slide saddle for boring and turning conical ; overhead motion, and screw keys.

DIMENSIONS.

Bed is 30 in. broad on face, 18 in. deep ; the driving cone has four speeds, each 5 in. broad ; diameter of largest speed, 26 in. ; diameter of least speed, 10 in. ; gearing wheels, first pair, 5 in. broad, 1½ in. pitch ; second pair, 5 in. broad, 1½ in. pitch ; third pair, 5 in. broad, 2 in. pitch ; diameter of largest gear wheel, 28 in. ; diameter of least gear wheel, 10 in. ; driving pulleys, 24 in. diameter, 5 in. broad ; speed of overhead motion about 50 revolutions per minute.

Weight 12 tons. Price, £

Price extra, if fitted with screw cutting gear, £

Price per foot of bed, if required longer or shorter, £

LIST OF DIMENSIONS AND WEIGHTS.

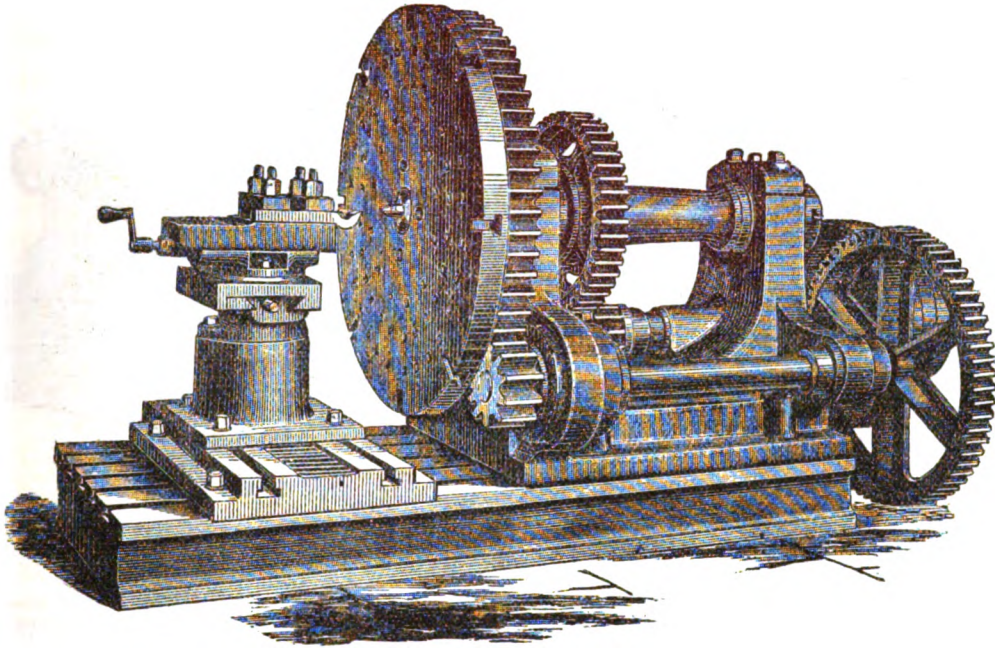
No.	Height of centres.	Length of bed.	Dimensions of bed.		Dimensions of gear wheels.				Dimensions of cone				Admit in gap.		Driving Pulley.		Weight.	Price.	Price per foot, if required longer or shorter bed.
			Broad.	Deep.	Diameter of largest.	Diameter of smallest.	Headth.	Pitch.	Diameter of largest.	Diameter of smallest.	No. of speed.	Width.			Diameter.	Width.			
1	12	12 0	18½	12	15½	5	3	1	14½	5	5	3	6 0	16	3½	5	0 0		
2	14	16 0	21	13	17½	6	3½	1½	16½	5½	5	3½	6 6	18	4½	7	0 0		
3	16	16 0	22	14	18½	7	4	1½	17½	7½	4	4	6 8	18	4½	8	0 0		
4	18	16 0	24½	15	21½	7	4	1½	20½	7½	5	4	6 8	18	4½	9	0 0		
5	20	12 0	30	18	28	10	5	1½	26	10	4	5	7 0	24	6	12	0 0		

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 3.

SELF-ACTING SLIDING, SURFACING, AND RAILWAY WHEEL TYRE TURNING LATHE,

For boring and surfacing large diameters. These lathes consist of powerful geared headstock, bolted on planed iron foundation bed, with strong pillar and compound slide rest; self-acting by ratchet gear; overhead motion, and screw keys.

DIMENSIONS.

Bed is 10 ft. long by 4 ft. wide; 5 ft. face plate, with strong gear wheel, level with rim; driving cone has 5 speeds, each 4 in. broad; diameter of largest speed, 21 in.; diameter of smallest speed, 6 in.; large wheel on face plate, 5 ft., diameter $1\frac{1}{2}$ in. pitch and $4\frac{1}{2}$ in. broad. First driving wheels are in the proportion of 6 to 1, second 8 to 1; it will be seen the amount of power is in proportion of 48 to 1, and can be run single gear for quick motion. Driving pulleys, 24 in. diameter, 5 in. broad; speed of overhead motion about 50 revolutions per minute.

Weight, 8 tons.

Price £

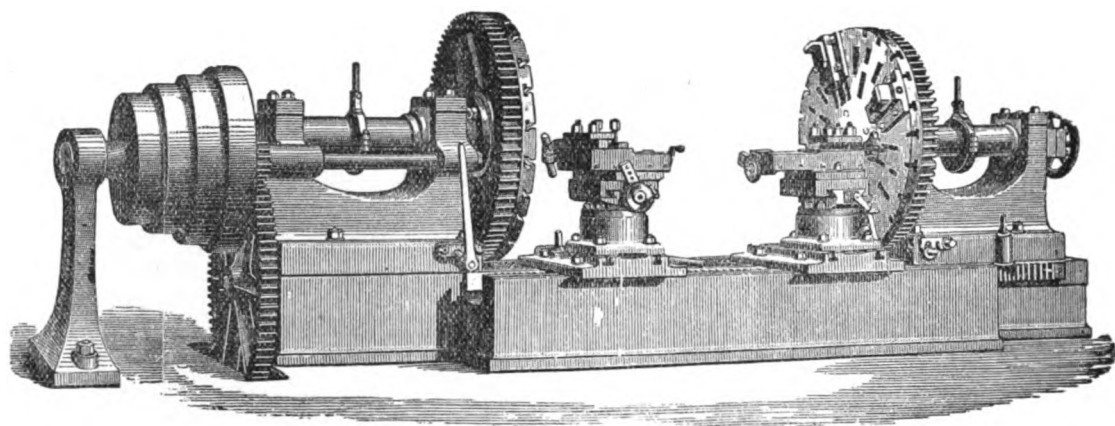
No.	Length of Bed.		Width of Bed.		Depth of Bed.		Dimensions of Gearing.		Dimensions of Cone.		Admit in Diameter.		Weight.					
	ft.	in.	ft.	in.	ft.	in.	In. Br'dth.	In. Pitch.	No. of Speeds.	In. Broad.	ft.	in.	Tons.	Cwts.	Qrs.	£	s.	d.
1	9	0	3	0	1	0	4	$1\frac{1}{2}$	5	3	4	0	4	10	0			
2	10	0	3	6	1	0	4	$1\frac{1}{2}$	5	$3\frac{1}{2}$	5	0	6	0	0			
3	10	0	4	0	1	0	$4\frac{1}{2}$	$1\frac{1}{2}$	5	4	6	0	8	0	0			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 4.

POWERFUL RAILWAY WHEEL LATHE,

Adapted to turn a pair of wheels upon their axle without torsion; to bore two tyres, and boss or bore two wheels, or to boss or bore a wheel at one face plate, and to bore a tyre at the other at the same time; cast iron spindles, 12 in. diameter, fitted into parallel bearings of cast iron, and carrying two large face plates, with external wheels. The speed of fast headstock face plate can be varied from that of the loose head. These headstocks are bolted down to a planed base plate, and the loose one is movable upon it by rack and pinion; two extra large pillars, fitted with compound slide rests, self-acting by ratchet motion; the bottom slides are adjustable so as to swivel round to the angle of the tyres, and the upper ones to cut the sides, movable transversely by screw, and longitudinally by rack and pinion; overhead motion, screw keys.

DIMENSIONS.

Bed 3 ft. broad where heads are fixed, and 5 ft. broad where slide rests are fixed, and 1 ft. 6 in. deep; speed cone has four speeds, each 5 in. broad; diameter of largest, 26 in.; diameter of smallest, 10 in.; gearing wheels are, first pair 5 in. broad and $1\frac{1}{2}$ in. pitch; diameter of largest, 3 ft. 6 in.; diameter of smallest, 6 in.; second pair, on face plate, diameter of largest, 5 ft.; diameter of smallest, $7\frac{1}{2}$ in. The power in the gearing is in the proportion of 56 to 1; driving pulleys 24 in. diameter, 6 in broad; speed of overhead motion about 50 revolutions per minute.

Weight, 17 tons. Price, £

No.	Length of Bed.		Width of Bed where heads are fixed.		Depth of Bed.	Dimensions of Gear Wheels.			Dimensions of Speed Cones.			Driving Pulleys.	Admit in diameter.	Tons. Cwt. Qrs.			£ s. d.		
	ft.	in.	ft.	in.		dia.	wide.	pitch.	No. of speed	of broad	least dia.								
1	16	0	2	3	1 8	3 0	4	$1\frac{1}{2}$	5	$3\frac{1}{2}$	$16\frac{1}{2}$	6	2 0	3 0	7	0	0		
2	18	0	$2\frac{1}{2}$	$3\frac{1}{2}$	1 8	4 0	$4\frac{1}{2}$	$1\frac{1}{2}$	5	4	$17\frac{1}{2}$	$7\frac{1}{2}$	2 5	4 0	10	0	0		
3	18	0	$2\frac{1}{2}$	4	1 6	5 0	$4\frac{1}{2}$	$1\frac{1}{2}$	4	5	26	10	2 6	5 0	12	10	0		
4	20	0	3	5	1 6	6 6	5	2	4	5	26	10	2 6	6 6	17	0	0		
						4 0	5	$1\frac{1}{2}$											

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

BOLT SCREWING MACHINES.

Dis- count.	No.		Tons.	Cwt.	£	s.	d.
	1053	Machine to screw from $\frac{3}{8}$ to $1\frac{1}{2}$ in., geared with hollow spindle, fitted with die and tap holders, six pairs dies, reversing motion, and driving apparatus					
	1054	Machine to screw from $\frac{1}{2}$ inch to $1\frac{1}{2}$ inch inclusive. Fitted as No. 1053 ..	1		5		
	1055	Machine to screw from $\frac{3}{4}$ inch to 2 inch. inclusive. Fitted as No. 1053 ..					
	1056	Boiler Plate Shears, from £ to £ each.					

IMPROVED MACHINES FOR SHARPENING SAWS.

Fitted with apparatus for circular saws, to 6 feet diameter, and with moving slide and clams for long saws, to 4 feet at one setting; complete for work, with four patent emery wheels, made expressly for sharpening saws

Machine for Long or Frame Saws only

Machine for Circular Saws only

EXTRA EMERY WHEELS AT PER LB.

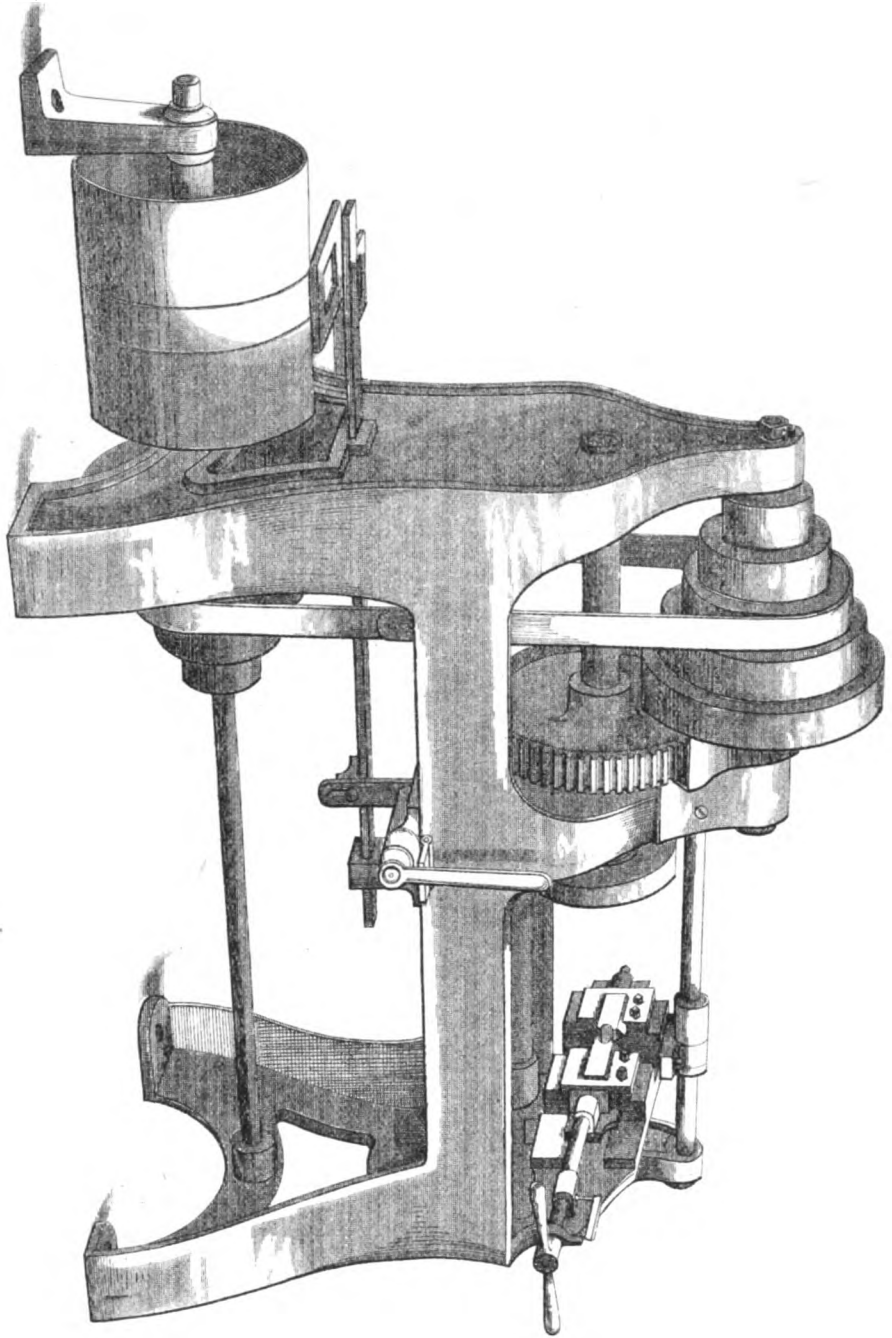
N.B.—These machines effect a great saving of time and labour in sharpening all kinds of saws, dispense with the necessity, so often arising with hand-sharpened saws, for punching the teeth deeper, and the consequent hammering, and produce much more uniform and superior work.

SELF-ACTING CIRCULAR SAW GRINDING MACHINES.

No. 1.—For Saws 36 inches	£
No. 2.—For Saws 43 inches	£
No. 3.—For Saws 48 inches	£
No. 4.—For Saws 60 inches	£
No. 5.—For Saws 72 inches	£

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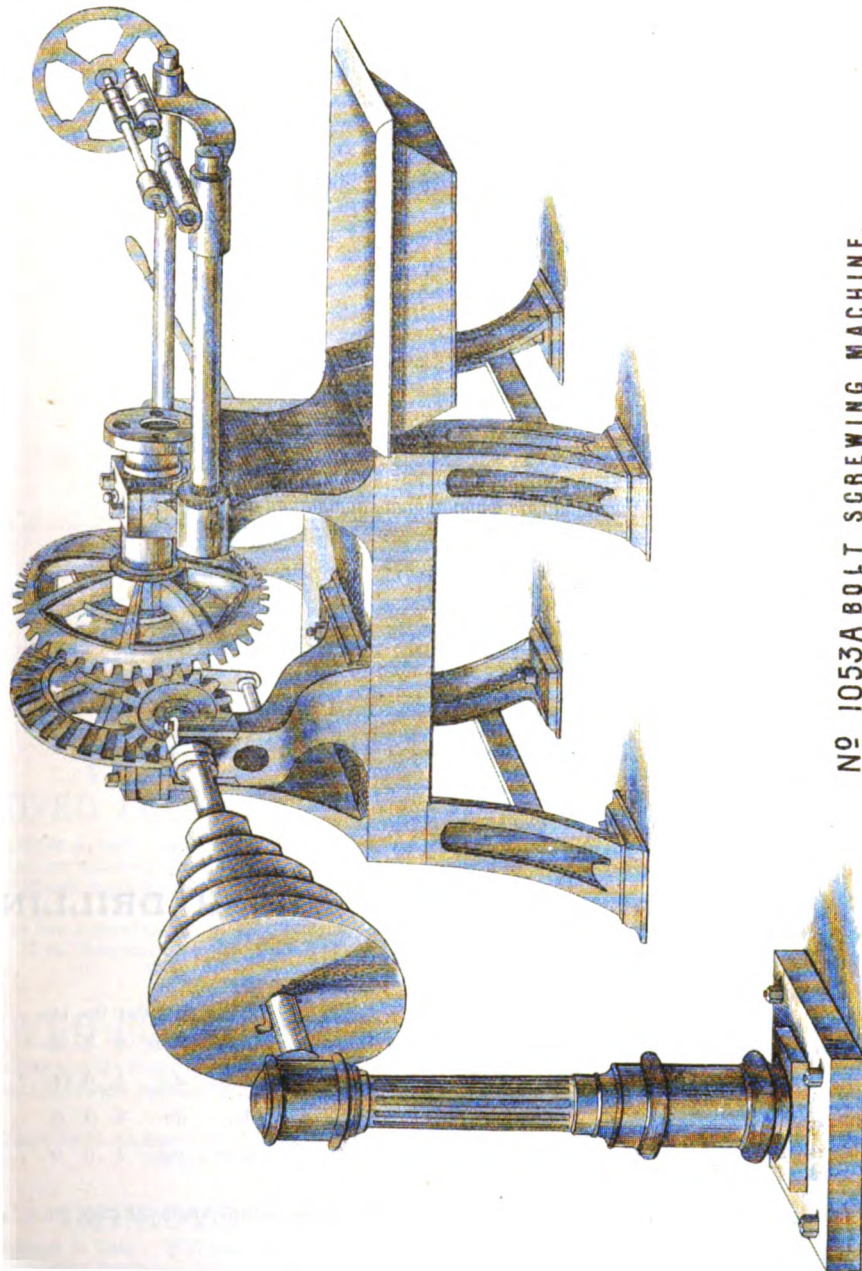
EDWARD BROOKES.



1053. BOLT SCREWING MACHINE.

To screw from $\frac{3}{8}$ to $1\frac{1}{2}$ in., geared with hollow spindle, fitted with die and tap holders, six pairs dies, reversing motion, and driving apparatus. Weight 6 wt. 2

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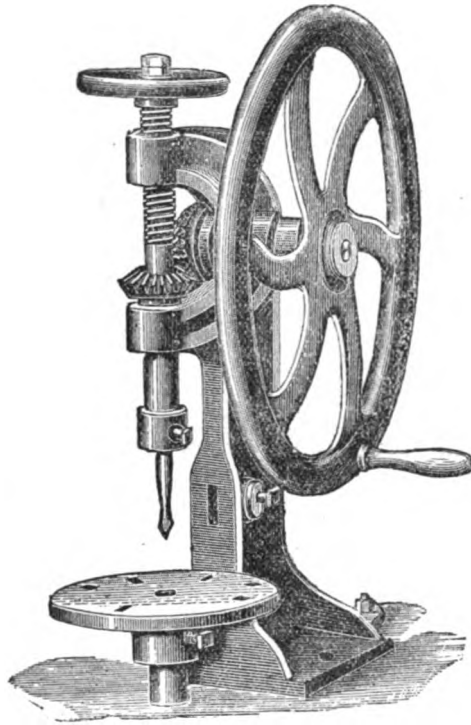
No 1053A BOLT SCREWING MACHINE.

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ENGINEERS' TOOLS.—Continued.



No. 1007 B.

IMPROVED VERTICAL HAND BENCH DRILLING MACHINE, WITH TABLE.

Size.										Cwt. Qrs. Lbs.			£ s. d.				
1	Will Drill up to $\frac{3}{4}$ in. diameter ; will take in 9 in. : Table, $7\frac{1}{2}$ in. diameter ; Weight, about									0	3	0	..	3	5	0	
2	Do.	do.	1 in.	do.	do.	12 in.	do.	9 in.	do.	do.	1	0	14	..	5	10	0
3	Do.	do.	$1\frac{1}{2}$ in.	do.	do.	15 in.	do.	12 in.	do.	do.	3	0	0	..	10	10	0
4	Do.	do.	$1\frac{1}{2}$ in.	do.	do.	20 in.	do.	15 in.	do.	do.	4	0	0	..	16	0	0

Sizes 2, 3, 4, can be had with cone pulley and overhead motion for steam power, at 45/0, 76/0, and 110/0 respectively, extra

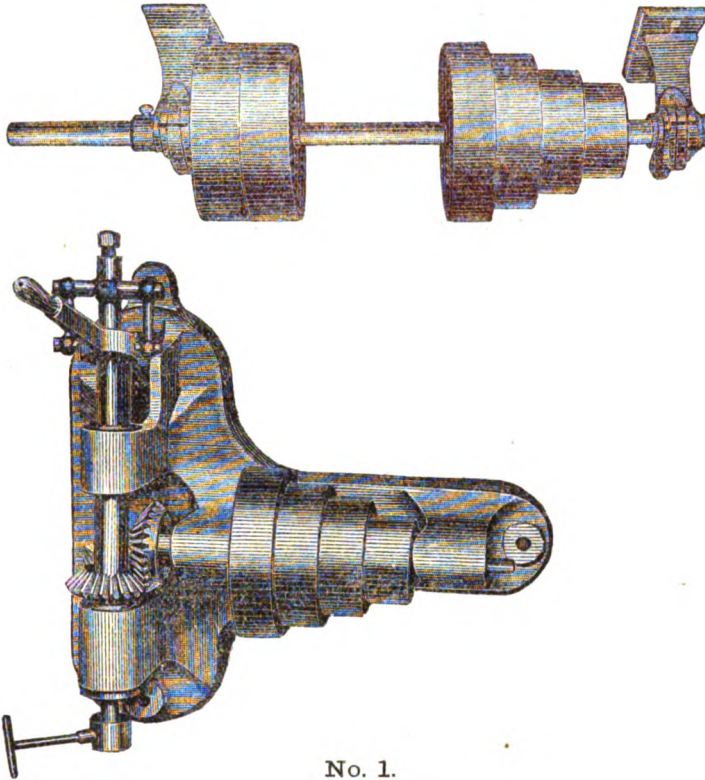
The 1 and 2 machines are as illustrated ; 3 and 4 are of the box type, with table carried on swing arm, and improved feed motion.

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 1.

IMPROVED COUNTER SINKING WALL DRILLING MACHINE,

To bolt against a wall. Will admit 26 in. diameter. 5 in. hand lever feed motion; cast steel spindle, $1\frac{1}{2}$ in. diameter, and provided with case hardened lock nuts to take up all wear and prevent spindle from falling off its own gravity; overhead motion, and screw keys.

DIMENSIONS.

Driving cone has 4 speeds, each 3 in. broad; diameter of largest speed, $12\frac{1}{2}$ in.; diameter of smallest, $6\frac{1}{2}$ in.; driving pulleys are 15 in. diameter and 3 in. broad; bevel gear, $\frac{3}{4}$ in. pitch; speed, overhead motion, about 120 revolutions per minute.

Weight 7 cwts.

Price, £

No. 2.

IMPROVED COUNTER SINKING WALL DRILLING MACHINE,

To bolt against a wall; is driven by fast and loose pulleys instead of cone. Will admit 30 in. diameter; 6 in. hand lever motion; cast steel spindle $1\frac{1}{2}$ in. diameter; overhead motion and screw keys.

DIMENSIONS.

Driving pulleys 15 in. diameter, 3 in. broad; bevel gear $\frac{3}{4}$ in. pitch; speed of overhead motion about 100 revolutions per minute.

Weight 10 cwts.

Price, £

No. 3.

IMPROVED WALL DRILLING MACHINE,

To bolt against a wall. Will admit 40 in. diameter; 5 in. hand feed motion; cast steel spindle $1\frac{1}{2}$ in. diameter, provided with case hardened lock nuts to take up all wear and prevent spindle from falling with its own gravity; overhead motion and screw keys.

DIMENSIONS.

Driving cone has 4 speeds, each 3 in. broad; diameter of largest speed, $12\frac{1}{2}$ in.; diameter of smallest, $6\frac{1}{2}$ in.; driving pulleys are 15 in. diameter, 3 in. broad; bevel gear $\frac{3}{4}$ in. pitch; speed of overhead motion 120 revolutions per minute.

Weight $9\frac{1}{2}$ cwts.

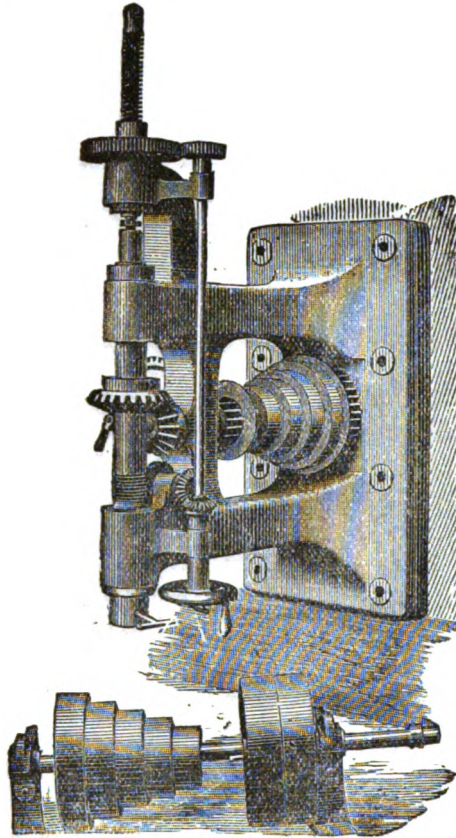
Price, £

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THE ILLUSTRATED SHEFFIELD LIST.

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ENGINEERS' TOOLS.—Continued.



No. 5.

Improved Double-Power Geared Wall Drilling Machine,

To bolt against a wall. Will admit 6 ft. diameter; 12 in. self-acting feed motion; steel spindle, 2 in. diameter, provided with case hardened lock nuts to take up all wear; will bore to 8 in. diameter; overhead motion, and screw keys.

DIMENSIONS.

Driving cone has 4 speeds, each 3 in. broad; largest speed, $12\frac{1}{2}$ in. diameter; smallest, 5 in. diameter; gearing wheels are 3 in. broad; largest, 13 in. diameter; smallest, $4\frac{1}{2}$ in.; driving pulleys are 15 in. diameter, $3\frac{1}{2}$ in. broad. Speed of overhead motion about 110 revolutions per minute.

Weight, 15 cwt.

Price, £

No. 6.

Improved Double-Power Geared Wall Drilling Machine,

To bolt against a wall. Will admit 7 ft. diameter; 12 in. self-acting feed motion; steel spindle, $2\frac{1}{2}$ in. diameter, provided with case hardened lock nuts to take up all wear; will bore to 12 in. diameter; overhead motion, and screw keys.

DIMENSIONS.

Driving cone has 5 speeds, each 3 in. broad; largest speed, 14 in. diameter; smallest, 5 in. diameter; gearing wheels are 3 in. broad, 1 in. pitch; diameter of largest, $15\frac{1}{2}$ in.; diameter of smallest, $5\frac{1}{2}$ in.; driving pulleys are 16 in. diameter, and $3\frac{1}{2}$ in. broad. Speed of overhead motion about 110 revolutions per minute.

Weight, 21 cwt.

Price, £

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THE ILLUSTRATED SHEFFIELD LIST.

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ENGINEERS' TOOLS.—Continued.

DRILLING MACHINES.

VERTICAL DRILLING MACHINES.

DIS- COUNT.	No.	
	1005A	Drilling Machine, including cast iron base plate, circular column, with revolving table, having a vertical slide by rack and pinion, to admit an article 2 ft. 3 in. diameter, to drill up to 1½ in. diameter; driving apparatus being self-contained£
	1005B	Drilling Machine, to admit an article 2 ft. 8 in. diameter, to drill up to 1½ in., fitted as No. 1005A£
	1006	Drilling Machine, double geared, to admit an article 2 ft. 6 in. diameter, to drill up to 4 in. diameter, fitted as No. 1005A£

HORIZONTAL BORING MACHINES.

No. 1.—Strong Machine, to admit 18 in. diameter, fitted upon 12 ft. bed, self-acting feed motion, one boring bar, two adjustable stays, top driving apparatus, and screw keys.....£

No. 2. - Self-acting, will bore through a range of 2 ft. 6 in. long, and up to 8 in. diameter; will admit articles on the table up to 16 in. centre. The table being arranged with longitudinal, transverse, and vertical motion, greatly facilitates the fixing and adjustment of any object required to be operated upon. The Machine is fitted with one boring spindle and stay, top driving apparatus and screw keys; it is well adapted for boring plummer blocks, railway axle boxes, hangers, small steam cylinders, cutting key-ways in shafts, &c.£

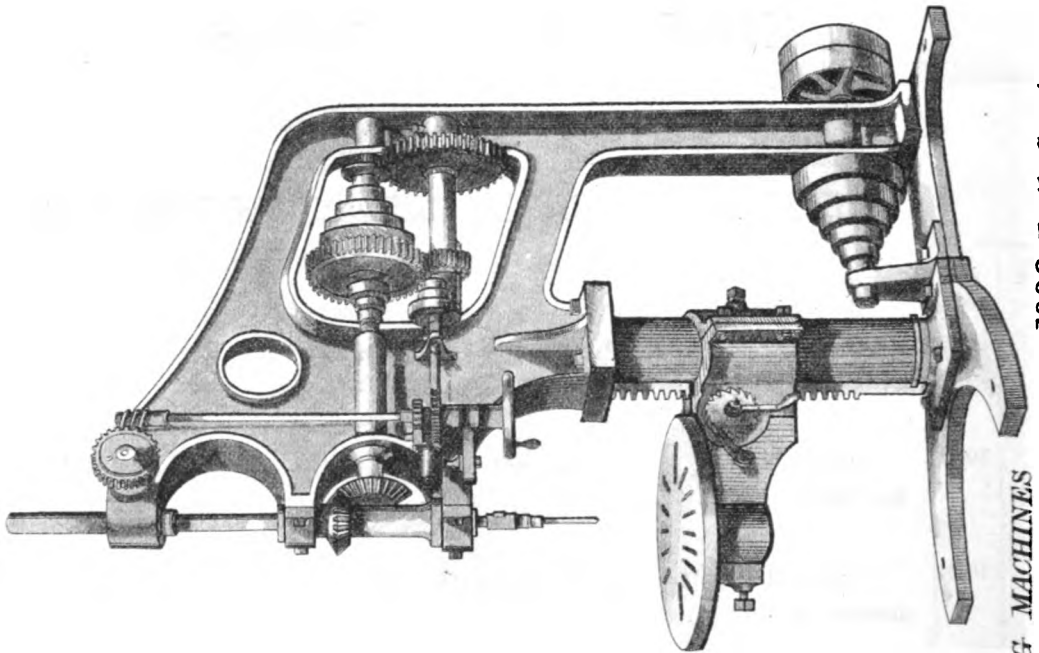
No. 2.—Fitted with face plate and slide rest, to work as a face lathe, extra .. £

No. 3.—Strong Machine, self-acting through a range of 3 ft. 3 in., will admit an article 3 ft. diameter upon foundation plate, 12 ft. long by 2 ft. 6 in. wide; fittings complete as No. 1£

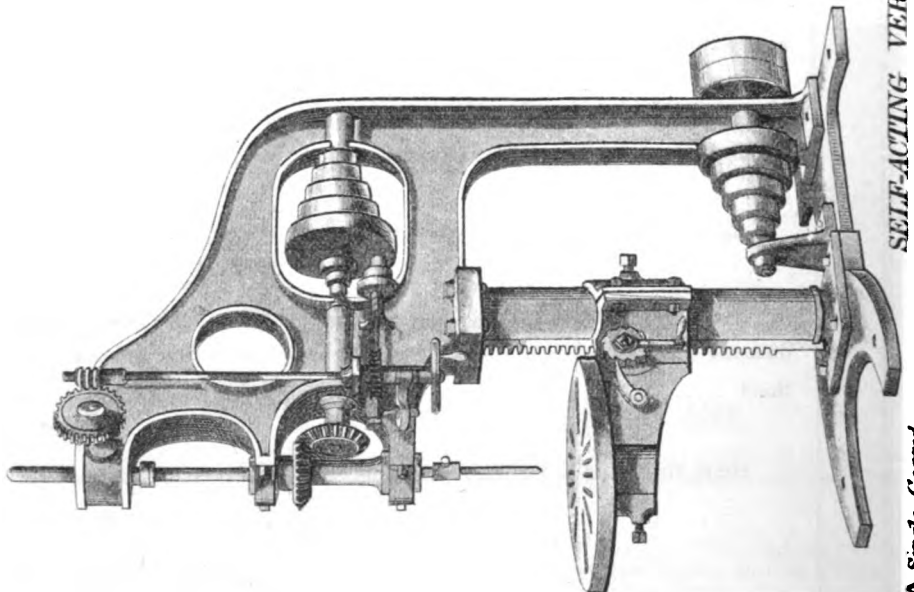
Heavy Horizontal or Vertical Boring Mills, for cylinders of large diameter .. £

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1006. Double Geared.



1005A Single Geared.

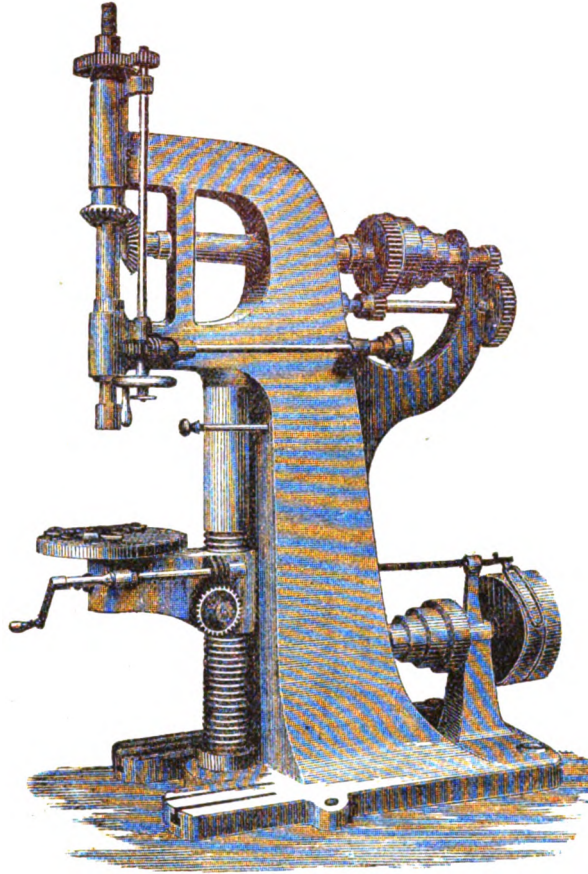
SELF-ACTING VERTICAL DRILLING MACHINES

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ENGINEERS' TOOLS.—Continued.



No. 2.

IMPROVED DOUBLE-POWER GEARED PILLAR DRILLING MACHINES.

These Drilling Machines are of the most approved construction; the main casting in one piece, and cast hollow; the base plate being planed true, and provided with slot-holes for bolting on the work; circular table on pillar to swing sideways, to admit large diameters; table, adjustable vertically by handle, worm, and wheel; fitted with best cast steel spindles running in cast iron bushes, which prevents the wear of the spindle; self-acting feed motion; strong gear wheels and driving cones; driving pulleys with strap guide, and screw keys.

DIMENSIONS AND WEIGHTS.

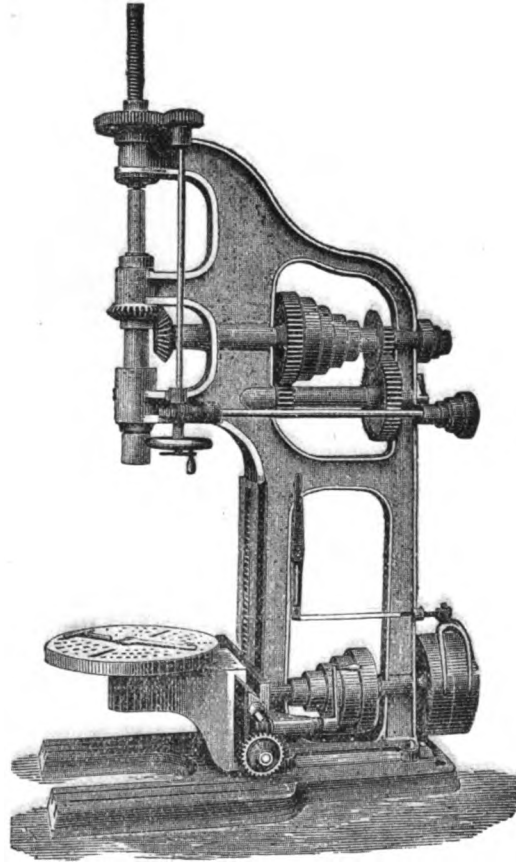
No.	Admit in Diameter.		Self-acting Feed Motion.	Diameter of Spindle.	Dimensions of Cones.		Dimensions of Gearing.		Dimensions of Driving Pulleys.		Weight.	Price.		
	ft.	in.	ins.	in.	Speeds. No.	Broad. in.	Broad. in.	Pitch. in.	Diameter. in.	Broad. in.	T. C. Q.	£	s.	d.
1	1	1	9	2	4	2½	2½	¾	12	3	1 0 0			
2	2	6	12	2½	4	3	3	¾	15	3½	1 10 0			
3	4	4	16	2¾	5	3	3	1	18	4	3 0 0			

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ENGINEERS' TOOLS.—Continued.



No. 3.

IMPROVED DOUBLE-POWER GEARED DRILLING MACHINE,

To admit 2 ft. 8 in. diameter; 12 in. self-acting feed motion; steel spindle, 2½ in. diameter, with case hardened lock nuts, to take up all wear; circular table, with horizontal slide, adjustable by handle, worm, and wheel; foundation with T slots, and planed for fixing large castings.

DIMENSIONS

Driving cone has 4 speeds, each 2½ in. broad; largest, 11 in. diameter; smallest, 4 in. diameter; gear wheels, 2½ in. broad, 1½ pitch, diameter of the largest wheel, 13 in.; smallest, 4½ in.; driving pulleys 15 in. diameter, 3 in. broad. Speed of driving pulleys about 150 revolutions per minute.

Weight, 25 cwts.

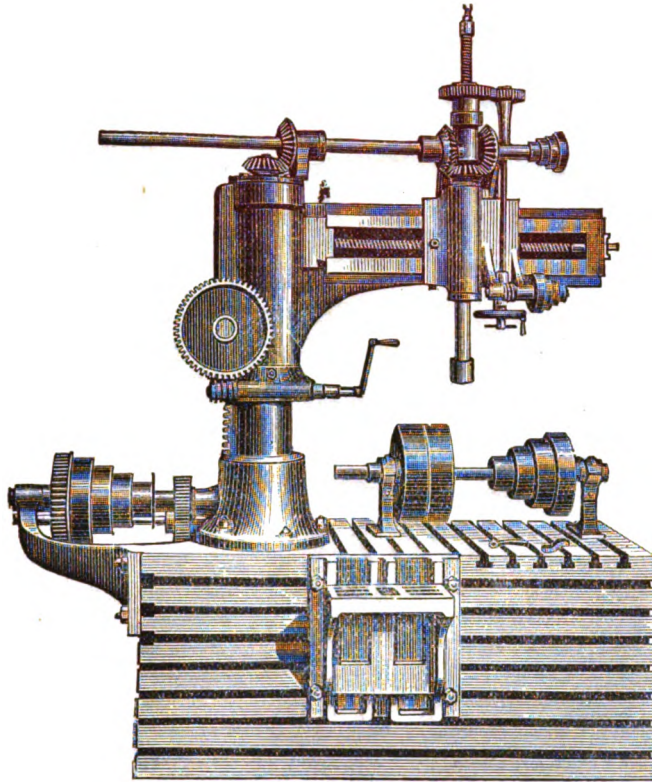
Price, £

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ENGINEERS' TOOLS.—Continued.



IMPROVED SELF-ACTING RADIAL DRILLING MACHINE.

This Machine is made in 3 sizes. The above engraving represents No. 1 and 2 sizes. No. 3 has not so deep a base, and has a different arrangement, in consequence of being a much heavier and more powerful machine. The machines have all steel spindles, carefully adjusted bearings; the base has T slots, and planed on sides and end for bolting large castings; overhead motion, and screw keys.

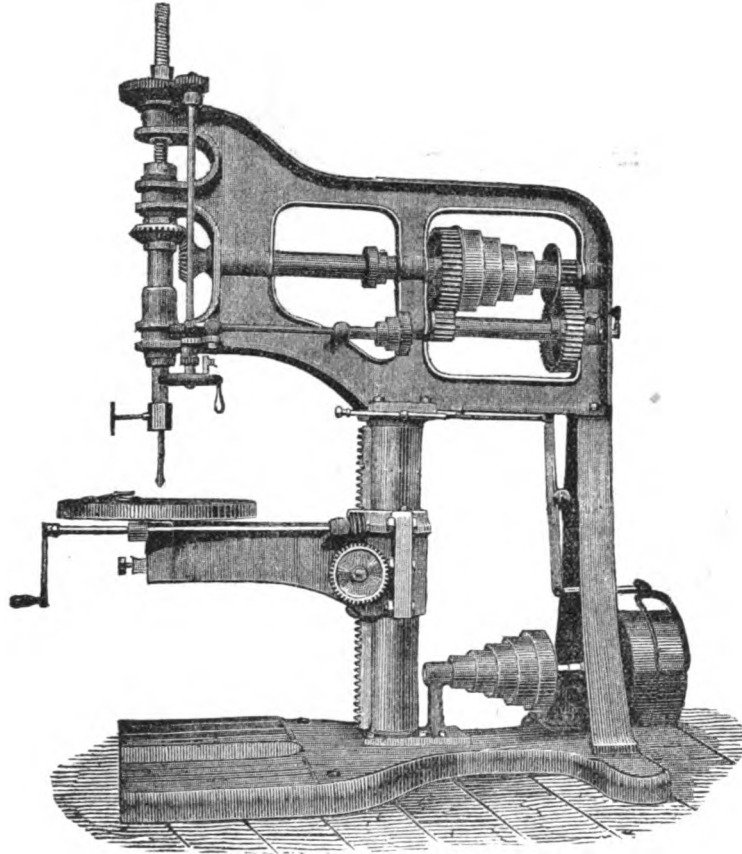
No.	Will Bore up to.		Radius of Arm.		Will take in Depth from Table.		Price.			Extra, for Angle Plate on Side.		
	Diameter. inches.	Depth. inches.	feet.	inches.	feet.	inches.	£	s.	d.	£	s.	d.
1	6	13	3	6	2	6						
2	12	17	4	6	2	8						
3	16	21	6	6	3	3						

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ENGINEERS' TOOLS.—Continued.



No. 7.

IMPROVED DRILLING MACHINE,

Double power geared, with circular table to swing sideways on strong pillar, and adjustable by handle, worm, and wheel; foundation planed for fixing large castings; admit 5 ft. diameter, and 2 ft. 9 in. in height from table to drill spindle, and 4 ft. 2 in. from base plate; 16 in. self-acting feed motion; steel spindles, 2½ in. diameter, with case hardened lock nuts to take up all wear; foundation planed and having T slots for fixing large castings; strap guide, and screw keys.

DIMENSIONS.

Driving cone has 5 speeds, each 3 in. broad; largest, 12½ in. diameter; smallest, 4½ in. diameter; gear wheels 3 in. broad and ⅔ in. pitch; driving pulleys 18 in. diameter and 3½ in. broad. Speed of driving pulleys, 120 revolutions per minute.

Weight, 35 cwts.

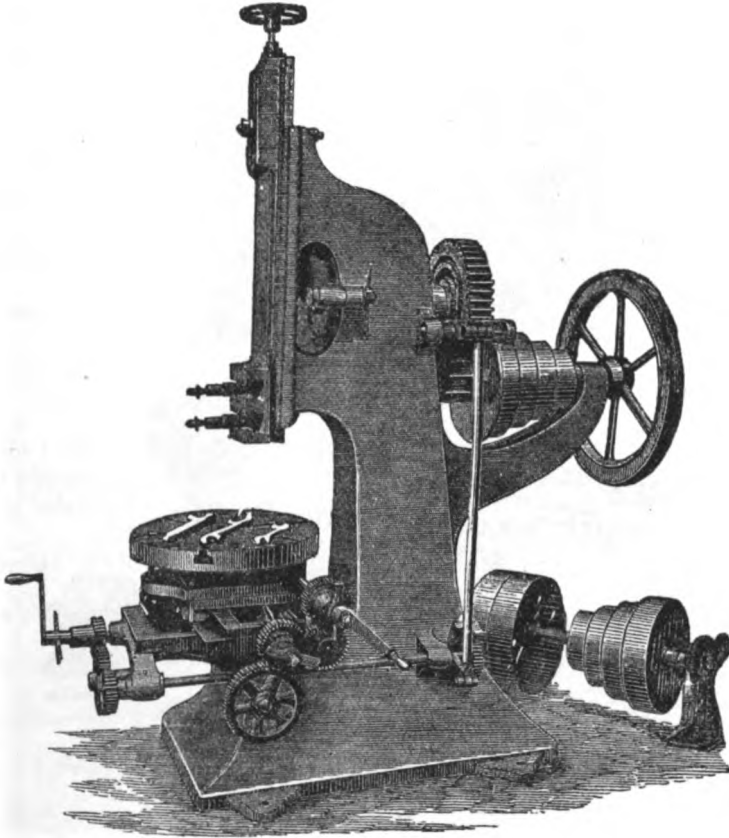
Price, £

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THE ILLUSTRATED SHEFFIELD LIST.

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ENGINEERS' TOOLS.—Continued.



No. 5.

IMPROVED SLOTTING MACHINE,

8 in. stroke, admits 3 ft. 6 in. diameter, with frame and base plate in one casting; adjustable ram, with continuous bearings; power geared, slow cutting motion and quick return; self-acting in the horizontal, transverse, and circular motions; compound table; overhead motion, and screw keys.

DIMENSIONS.

Driving pulleys are 15 in. diameter, $3\frac{1}{2}$ in. broad; driving cone has 4 speeds, each 8 in. broad; diameter of largest speed, 14 in.; diameter of least, $7\frac{1}{2}$ in.; gearing wheels are 3 in. broad and 1 in. pitch; largest, $17\frac{1}{2}$ in. diameter; least, $4\frac{1}{2}$ in. diameter. Speed of overhead motion about 120 revolutions per minute.

Weight, 35 cwt.

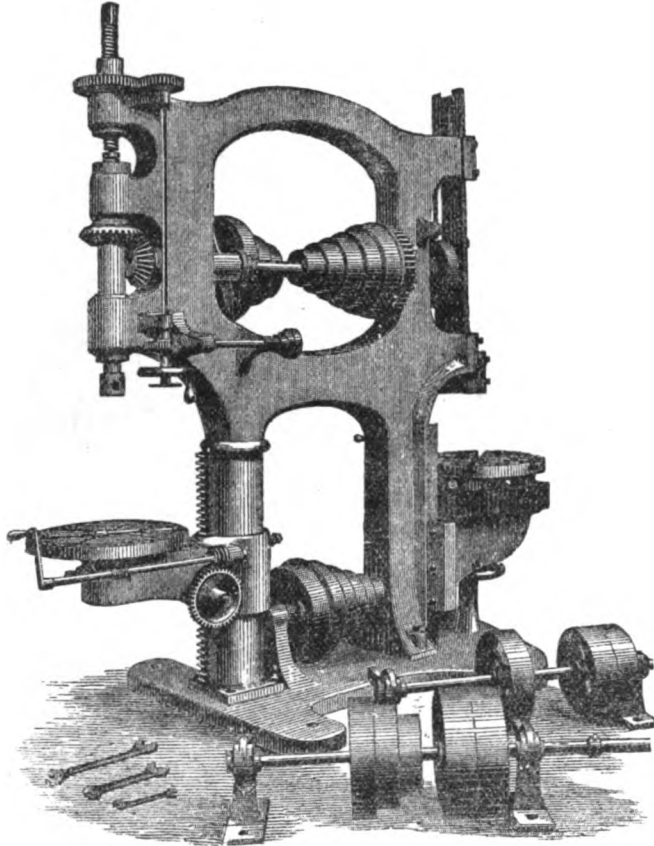
Price, £

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 1.

IMPROVED

POWER-GEARED DRILLING & SLOTTING MACHINE COMBINED,

Arranged to drill on one side, and slot on the other side; drill, with circular table to swing sideways on pillar, adjustable by handle, worm, and wheel; 12 in. self-acting feed motion; admit 3 ft. diameter; overhead motion, and screw keys.

DIMENSIONS.

Driving cone, 5 speeds, each 3 in. broad; gearing wheels, 3 in. broad, 1 in. pitch; diameter of large speed cone, 14 in.; least speed, 5 in. diameter; gear wheels, 15½ in. diameter; least, 5 in. diameter. Slotting Machine admits 36 in. diameter, 10 in. stroke; compound circular table, having self-acting horizontal, transverse slides, adjustable by wheel and screw.

DIMENSIONS.

Driving cone, 3 speeds, each 3 in. broad; diameter of largest speed, 14 in.; diameter of least speed, 9½ in.; gearing wheel, 15½ in. diameter, 3 in. broad, 1 in. pitch; least wheel, 5 in. diameter, 3 in. broad, 1 in. pitch.

Weight, 58 cwt.

Price, £

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THE ILLUSTRATED SHEFFIELD LIST.

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ENGINEERS' TOOLS.—Continued.

SELF-ACTING SLOTTING MACHINES.

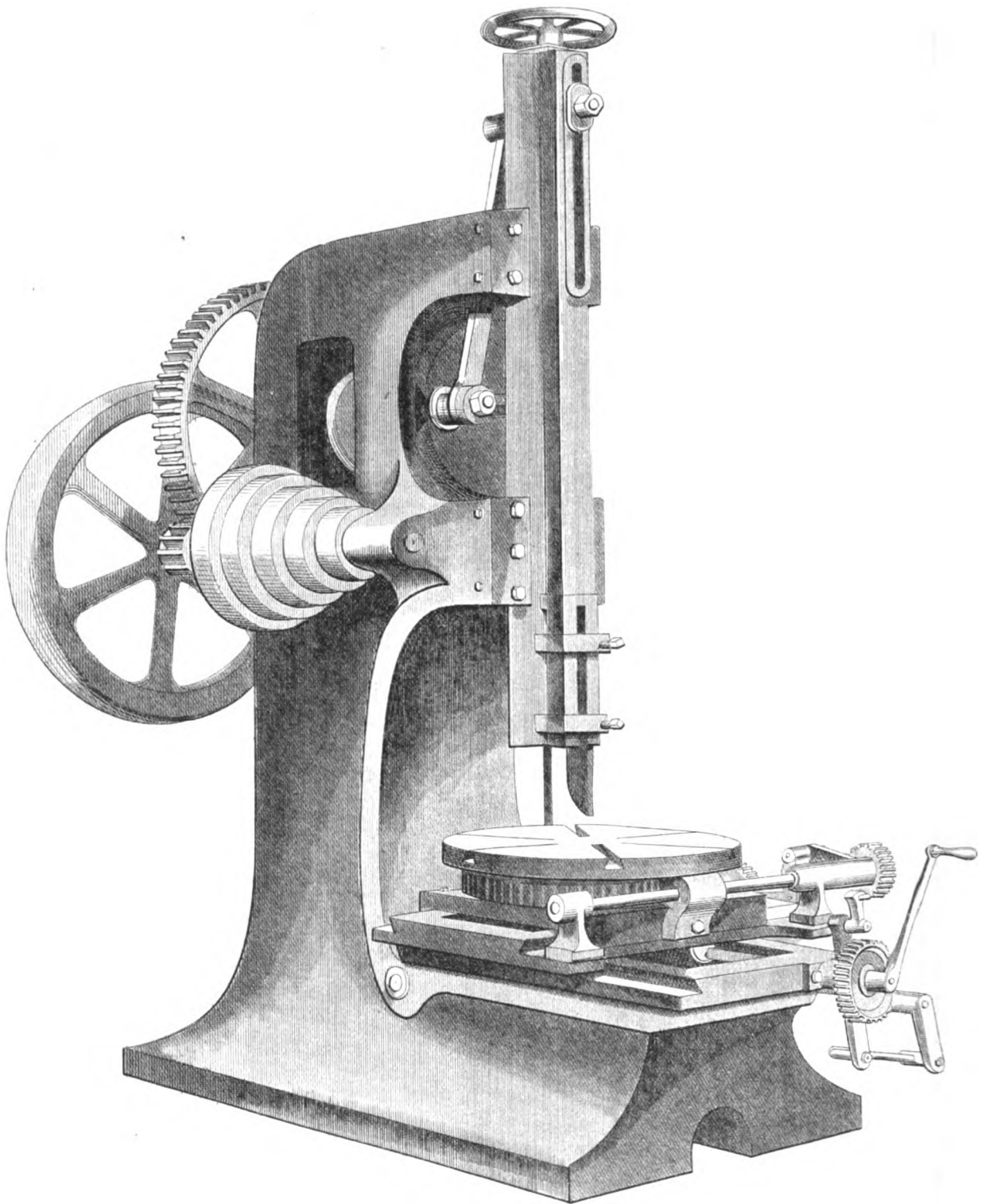
Dis- count.	No.	
	1095	To admit an article 2 ft. 6 in. diameter, with 8 in. stroke, self-acting in transverse slides and rotary motion, adapted for shaping a great variety of work.....£
	1096	To admit an article 2 ft. 10 in. diameter, with 9 in. stroke, self-acting, as above£
	1097	To admit an article 3 ft. diameter, with 12 in. stroke; fitted as No. 1095£
	1098	To admit an article 4 ft. diameter, with 13 in. stroke; fitted as No. 1095£
	1099	To admit an article 6 ft. diameter, with 15 in. stroke; fitted as No. 1095£
	1100	To admit an article 8 ft. diameter, with 18 in. stroke, very strong; fitted as No. 1095, £

WHEEL CUTTING AND DIVIDING ENGINES.

- No. 1.—Will cut bevil spur or worm wheels up to 18 in. diameter, and 8 in. on face, in wood or iron; fitted with mandrill, one spindle and cutter for metal, and one spindle and cutter for wood; set of change wheels, turned and teeth cut; index, top driving apparatus, and screw keys.....
- No. 2.—To cut 4 ft. diameter, and 6 in. on face; fitted as No. 1.....
- No. 3.—To cut 6 ft. diameter, and 12 in. on face; fitted as No. 1
- No. 4.—To cut 12 ft. diameter, and 16 in. on face; fitted as No. 1.....
- Machine for making cutters.....

Any kind of cutters for wood or iron made to order.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*SELF-ACTING SLOTTING MACHINE.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

SELF-ACTING SHAPING MACHINES.

These machines have a planing tool with variable stroke for plain, curved, and angular surfaces. All machines with a stroke exceeding 6 in. have a quick return motion for the tool. The prices include driving apparatus.

No.	DESCRIPTION.	Maximum Stroke.	Length of Bed.		Length Planed.		Diameter of Circular work planed.	Price.		
		inches.	ft.	in.	ft.	in.	inches.	£	s.	d.
1057	For plain and circular work	6	2	6	1	4	9			
1058	Ditto ditto ditto	6	3	9	2	4	6			
1059	With 3 headstocks and 3 tables	6	12	0	{ 1 8 } { 2 3 }		7			
1060	For plain and circular work, with 1 } table	13	3	9	2	4	18			
1061	Ditto ditto ditto	9½	3	9	2	5	12			
1062	Ditto ditto with 2 tables ..	9½	4	9	3	5	12			
1063	Ditto ditto with 2 tables ..	9½	5	9	4	5	12			
1064	Ditto ditto with 2 tables } and 2 headstocks	9½	12	0	By each. 4 4		12			
1065	Ditto with 1 table	13	3	9	2	4	18			
1066	Ditto with 2 tables	13	4	9	3	4	18			
1067	Ditto with 2 tables	13	5	9	4	4	18			
1068	Ditto with 2 tables	20	6	0						
1069	Ditto with 2 tables	20	9	0						
1070	Ditto with 2 tables	20	12	0						

1071 Vice Chucks, for fixing objects to be shaped.

1072 Dividing Chuck, for planing connecting rod and other brasses on the above machines.

FLUTING MACHINES,

Fitted with the required No. of Indices, Self-acting Levers, &c.

No. 1.—Fluting machine and wood turning lathe combined, for wood pressure axles £

No. 2.—Ditto, for 2 rollers at once, in wood or metal, 6 in. diameter by 18 in. long £

No. 3.—Ditto, for 2 rollers at once, 5 ft. 6 in. long £

No. 4.—Ditto, for 2 rollers at once, 10 ft. long £

GROOVING MACHINES,

With Self-acting Feed Motions, and worked by Circular Cutters.

No. 1.—To cut key ways in railway carriage and truck axles £

No. 2.—To cut keyways in ditto, fitted with 2 strong travelling headstocks, each carrying 3 cutters to operate upon both ends of 3 axles at once £

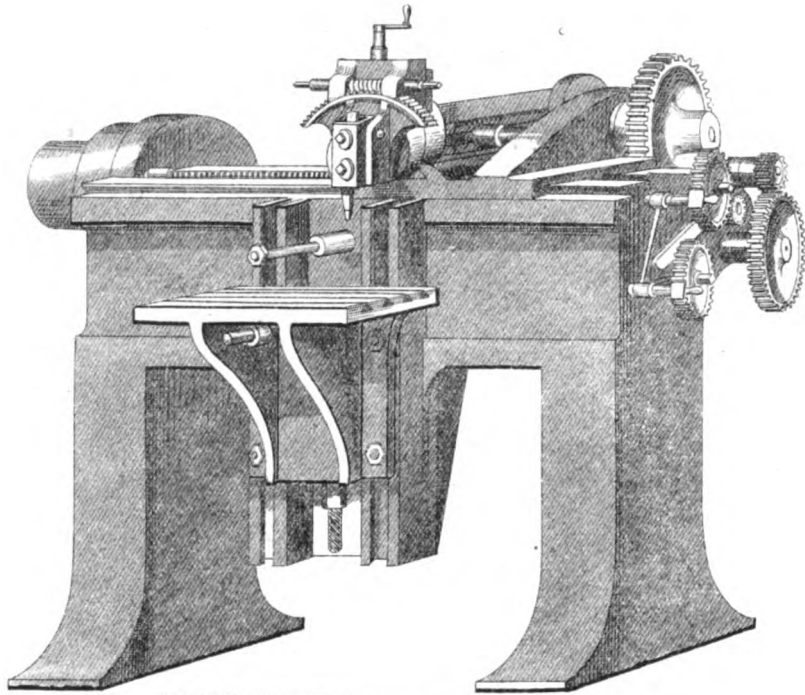
No. 3.—For grooving taps, dies, rimers, wheel cutting, nut shaping, &c.; will admit 14 in. diameter by 25 in. long; complete, with top driving apparatus, change wheels, screw keys, &c. £

NUT SHAPING MACHINES.

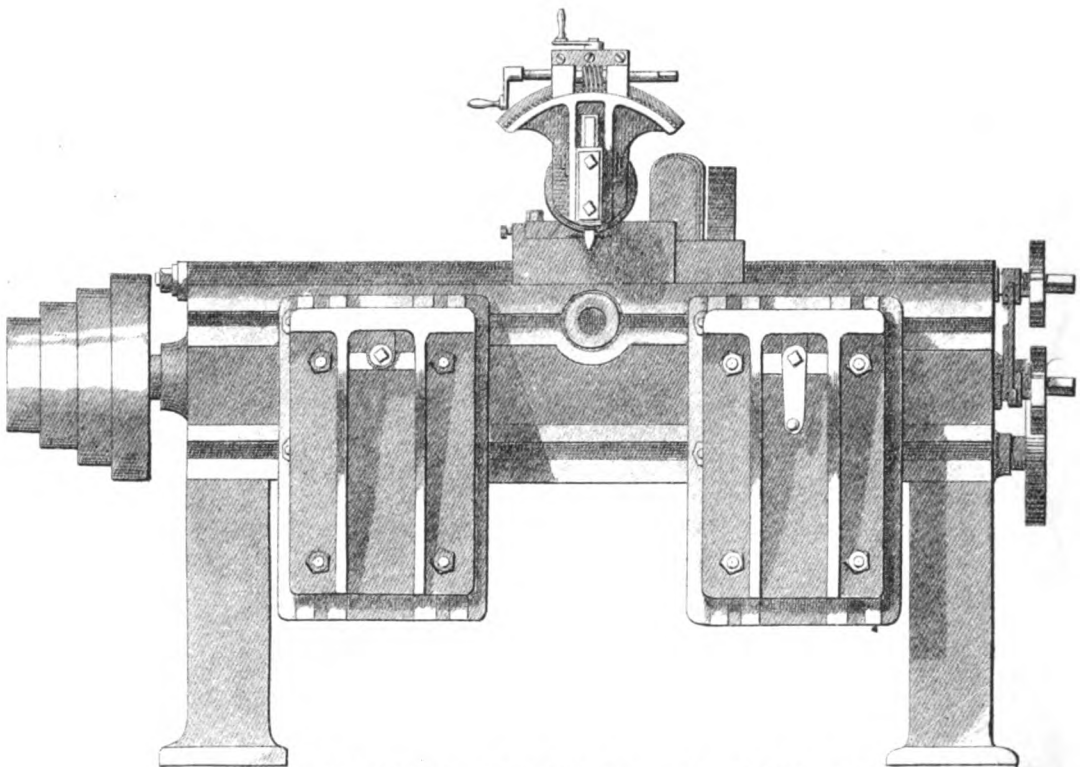
Strong machine, for shaping 4 or 6-sided nuts, 1 or 2 sides at the same time; fitted with top driving apparatus and 1 pair of cutters £

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1058, *SHAPING MACHINE.*



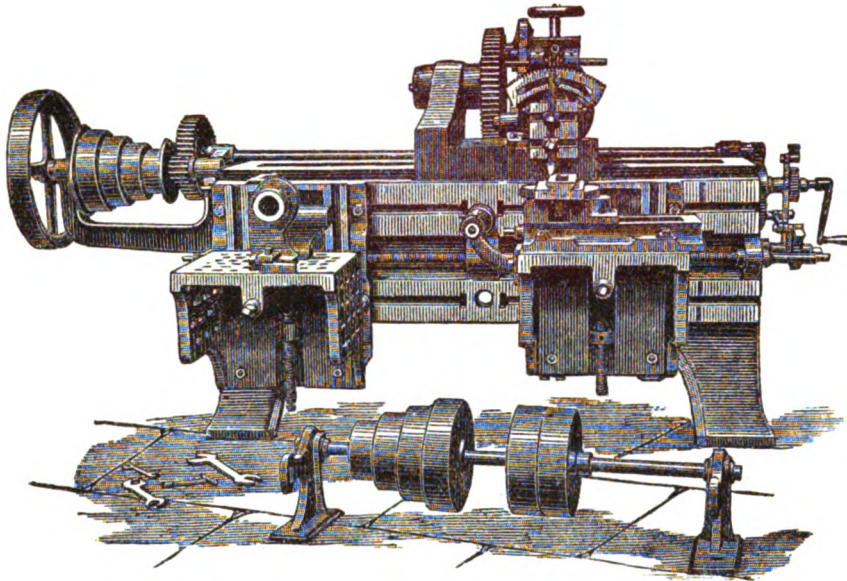
1062, *SHAPING MACHINE with TWO TABLES.*

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 6.

IMPROVED DOUBLE-POWER GEARED SHAPING MACHINE,

16 in. stroke; bed, 6 ft. long; 4 ft. 6 in. traverse; for shaping plain, curved, and angular surfaces; with improved self-acting feed motions; self-acting in the horizontal and circular cuts; slow cutting motion and quick return; setting-up wheels of malleable iron; two tables, adjustable by handle; bevel wheels and screw; parallel vice, with swivel jaw, for holding taper articles; overhead motion, and screw keys.

DIMENSIONS.

Bed is 24 in. broad on face and 21 in. deep; driving cone has 4 speeds, each 3 in. broad; the largest speed is $12\frac{1}{2}$ in. diameter; the least speed is $4\frac{1}{2}$ in. diameter; gearing wheels are 3 in. broad, and $\frac{1}{2}$ in. pitch; largest wheels, 18 in. diameter; the least wheel, $4\frac{1}{2}$ in. diameter; disc wheel, 18 in. diameter; pinion, 5 in. diameter; speed of overhead motion, about 130 revolutions per minute.

Weight, 61 cwt.

Price £

If with one table only, price £

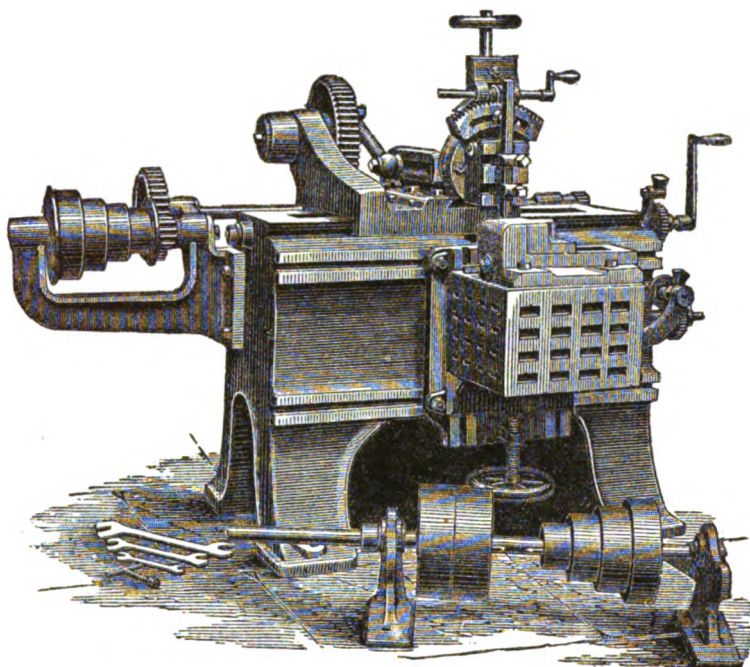
If made self-acting in the vertical and angular cuts, extra £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 3.

IMPROVED DOUBLE-POWER GEARED SHAPING MACHINE,

For shaping plain, curved, and angular surfaces; 10 in. stroke, bed 3 ft. 6 in. long, 2 ft. traverse of saddle, one expanding mandril; self-acting in the horizontal and circular motions; one table, adjustable by balance wheel and screw; parallel vice, with swivel jaw for holding taper articles; overhead motion, and screw keys.

DIMENSIONS.

Bed, 18½ in. broad on face, and 20 in. deep; driving cone has 4 speeds, each 3 in. broad; largest, 12½ in. diameter; smallest, 4½ in. diameter; gearing wheels 2½ in. broad, and ¾ in. pitch; largest, 13 in. diameter; smallest, 4 in. diameter. Speed of overhead motion, 150 revolutions per minute.

Weight, 25 cwt.

Price, £

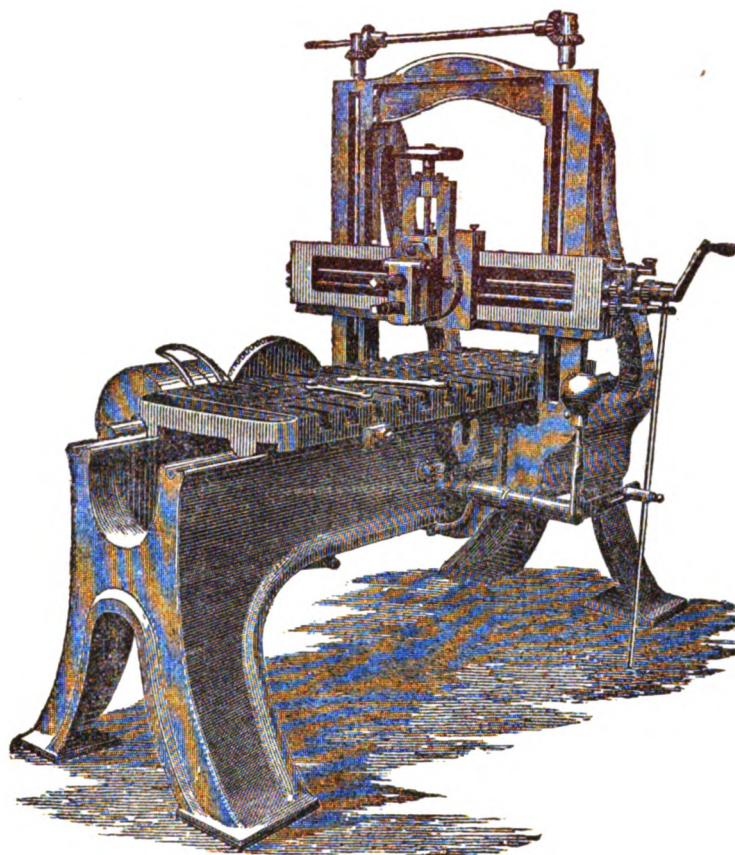
If made self-acting in vertical and angular cuts, extra, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 2.

IMPROVED PLANING MACHINE.

Is worked by bevel gear; the setting-up wheels of malleable iron; planes, 4 ft. long, 2 ft. wide, 3 ft. high; self-acting in the horizontal, vertical, and angular cuts; slow cutting motion and quick return; one tool box on the cross slide, and screw keys.

DIMENSIONS.

Driving pulleys, 3 in. wide and 14 in. diameter; width from centre to centre of slides of table, 19½ in., and table is 20 in. broad.

Weight

Price, £

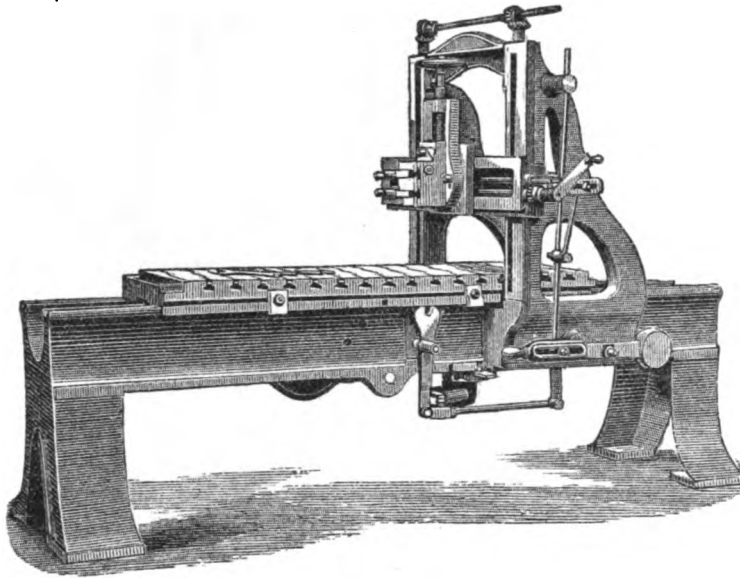
Price per foot, if required to plane longer, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 3.

IMPROVED PLANING MACHINE,

Of newest design and best construction, to plane 6 ft. long by 2 ft. 6 in. wide by 2 ft. 6 in. high; one tool box on cross slide, self-acting in horizontal, vertical, and angular motions; slow cutting motion and quick return; provided with self-acting lubricators; reversing motion of most approved construction; all screws and nuts case hardened, and screw keys.

DIMENSIONS.

Bed 1 ft. 2½ in. from centre to centre of V, and 11 in. deep; table, 6 ft. long, 2 ft. wide; gearing wheels, 1 in. pitch and 8 in. broad; driving pulleys, 1 ft. 3 in. diameter and 3 in. broad; speed, about 95 revolutions per minute.

Weight, 52 cwt.

Price, £

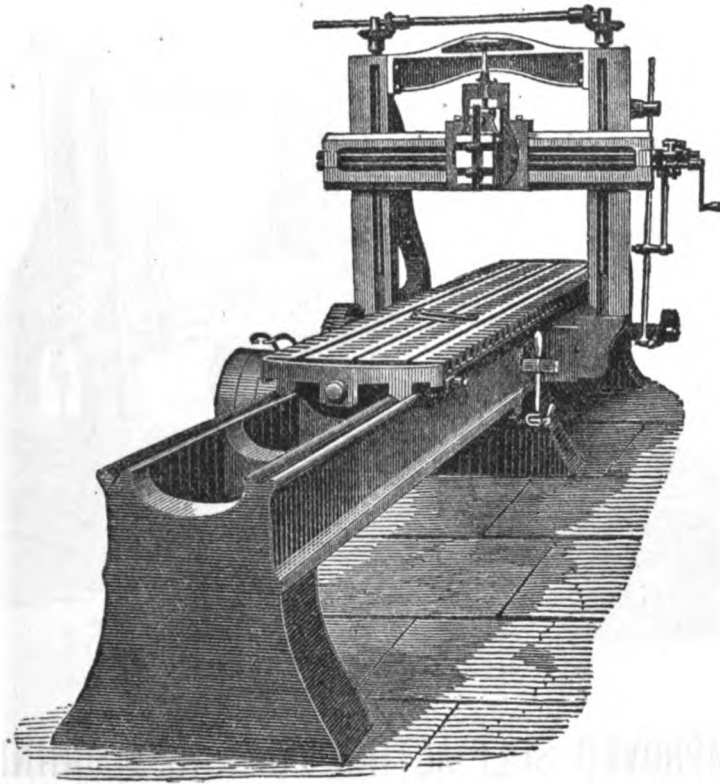
Price per foot, if required to plane longer or shorter, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 4.

IMPROVED SELF-ACTING PLANING MACHINE,

To plane 8 ft. long by 3 ft. wide by 3 ft. high; one tool box on cross slide; self-acting in the horizontal, vertical, and angular motions; slow cutting motion and quick return; provided with self-acting lubricators, handle and screw keys; all screws and nuts case hardened; self-acting reverse motion.

DIMENSIONS.

Bed, 1 ft. 3½ in. from centre to centre of V, and 1 ft. 1½ in. deep; table is 2 ft. 3 in. wide; gearing wheels are 1 in. pitch and 3 in. broad; driving pulleys, 18 in. diameter and 3½ in. broad.

Weight, 70 cwt.

Price, £

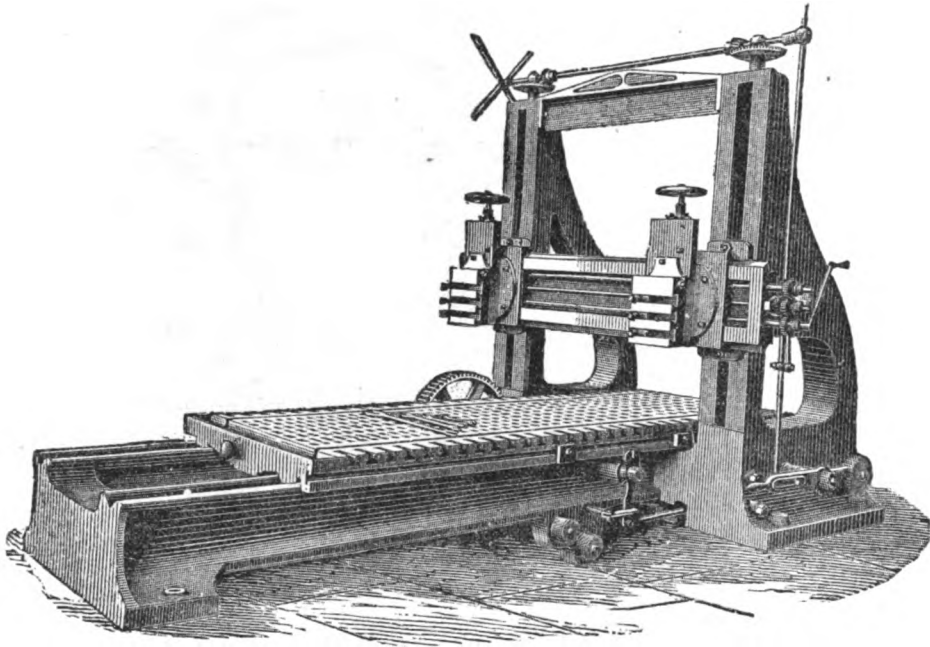
Price per foot, if required to plane longer or shorter, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



No. 8.

IMPROVED SELF-ACTING PLANING MACHINE.

A strong and powerful tool to plane 12 ft. long by 6 ft. wide by 6 ft. high; with 2 tool boxes on cross slide, self-acting in horizontal, vertical, and angular cuts; slow cutting motion and quick return; self-acting reverse motion; table with T slots and bolt holes for fixing the work; all screws and nuts case hardened; self-acting apparatus, for oiling V's of bed and table; and screw keys.

DIMENSIONS.

Bed is 3 ft. wide from centre to centre of V's, and 1 ft. 6 in. deep; table is 5 ft. broad; driving pulleys are 2 ft. diameter, 5 in. wide; gearing wheels, 3 ft. diameter, 5 in. wide, $1\frac{1}{2}$ in. pitch; rack pinion, $1\frac{1}{2}$ in. pitch and 10 in. wide.

Weight, 16 tons.

Price, £

Price per foot, if required to plane longer or shorter, £

Price, if provided with one tool box only, £

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

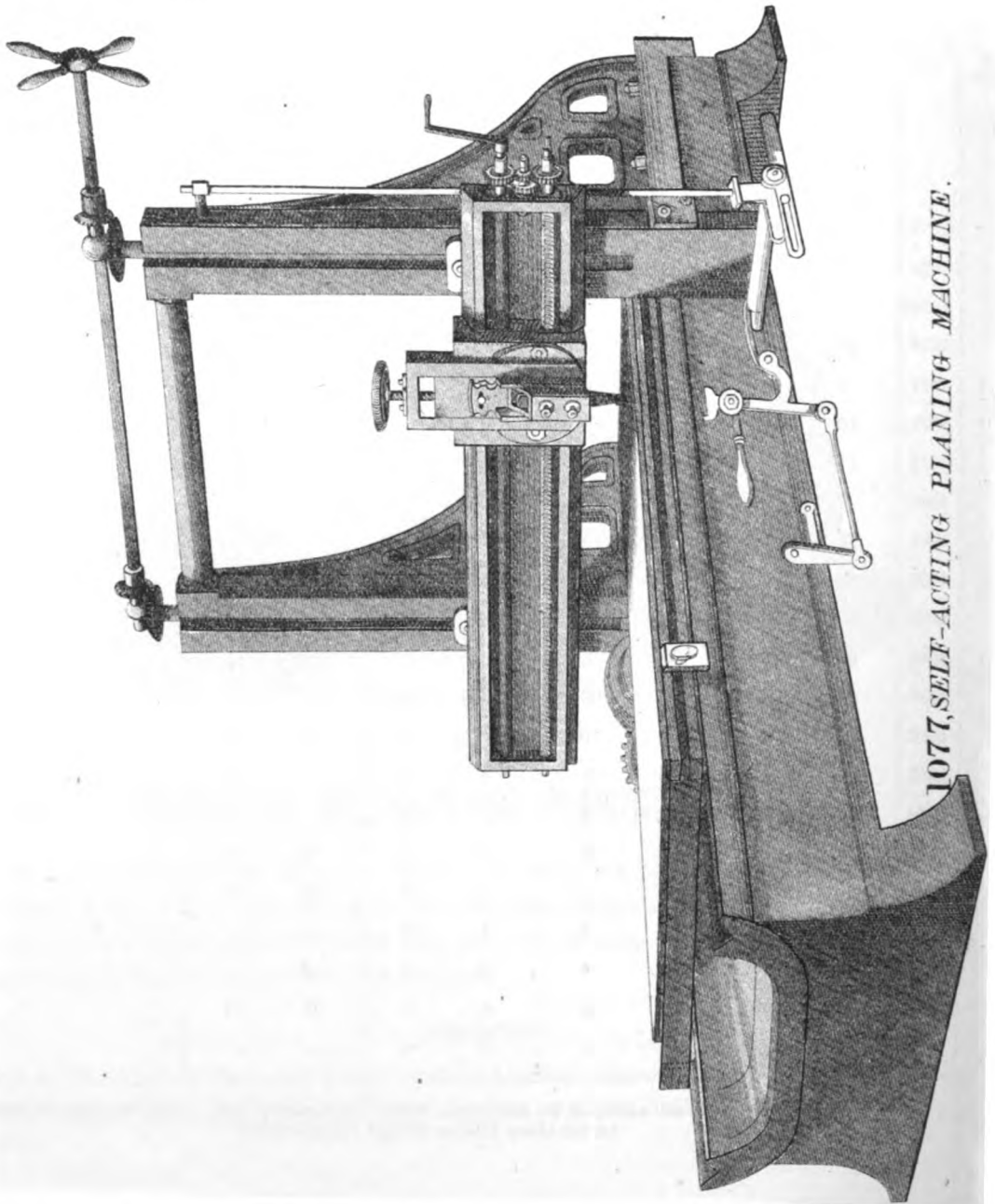
ENGINEERS' TOOLS.—Continued.

PLANING MACHINES.

Dis- count.	No.	Will Plane in Length.		Will Plane in Width.		Will admit in Depth.		Weight.		Price.		
		feet.	inches	feet.	inches.	feet.	inches.	tons.	cwt.	£	s.	d.
	1073	3	0	1	6	1	6	..	..	
	1074	4	0	1	9	1	9	1	10			
	1075	5	0	2	0	2	0	..	..	
	1076	10	0	2	0	2	0	..	..	
	1077	6	0	2	6	2	0	2	17			
	1078	10	0	2	6	2	0	..	..	
	1079	15	0	2	6	2	6	..	..	
	1080	8	0	3	0	2	6	3	10			
	1081	12	0	3	0	3	0	..	..	
	1082	20	0	3	0	3	0	..	..	
	1083	10	0	3	6	3	0	4	10			
	1084	20	0	3	6	3	0	..	..	
	1085	8	0	4	0	4	0	..	..	
	1086	12	0	4	0	4	0	6	0			
	1087	20	0	4	0	4	0	..	..	
	1088	10	0	4	6	4	0	..	..	
	1089	15	0	4	6	4	0	11	0			
	1090	20	0	4	6	4	6	14	14			
	1091	25	0	4	6	4	6	..	..	
	1092	15	0	5	0	5	0	..	..	
	1093	20	0	6	0	6	0	26	9			
	1094	30	0	6	0	6	0	..	..	

These machines are self-acting on the horizontal, vertical, and angular cuts. Improved Parallel vices for the above with or without swivel bottoms.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

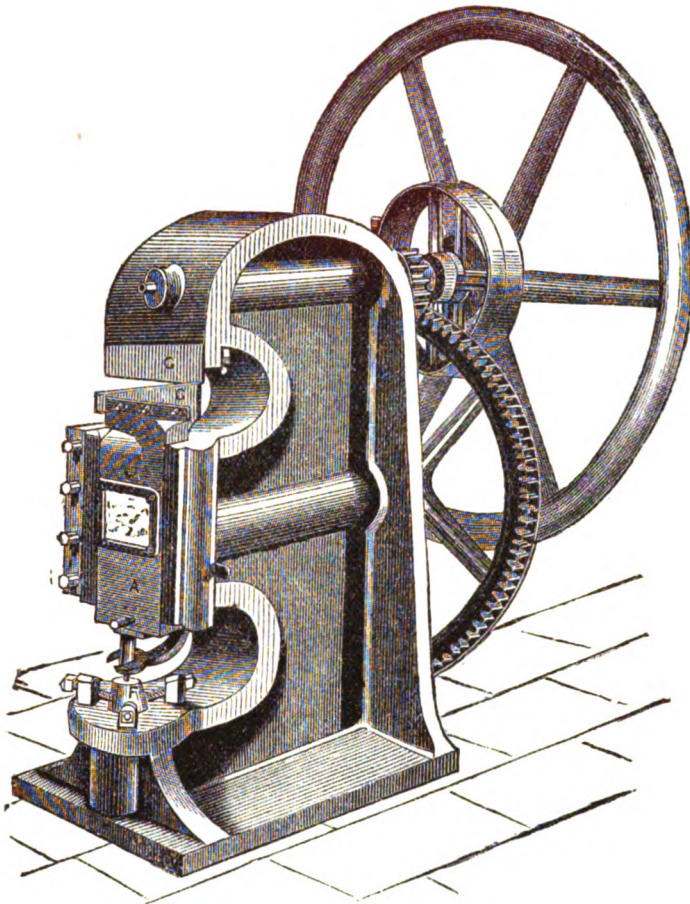
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

Dis- count.	No.
1044A	Will punch $\frac{3}{8}$ in. plates, 12 in. from edge, and shear long bars, the shears being fixed angularly
1045	Will punch $\frac{3}{8}$ in. plates, 12 in. from edge, and shear 12 in. from edge.....
1046	Will punch and shear $\frac{3}{8}$ in. plates, 12 in. from edge



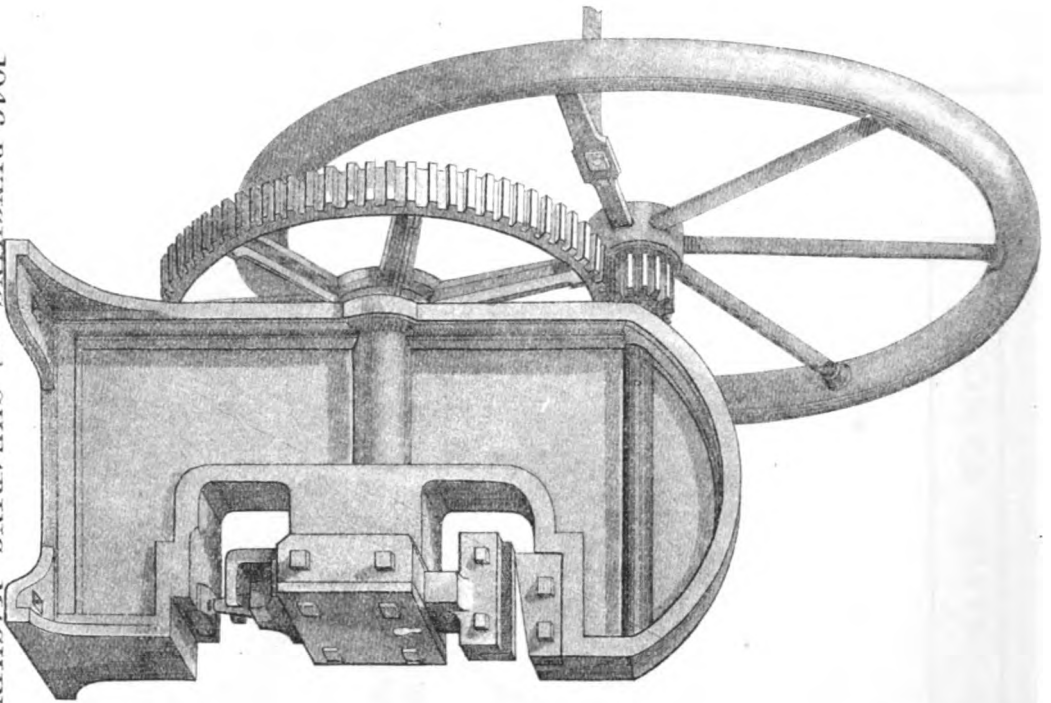
1044 A.

PUNCHING AND SHEARING MACHINES.

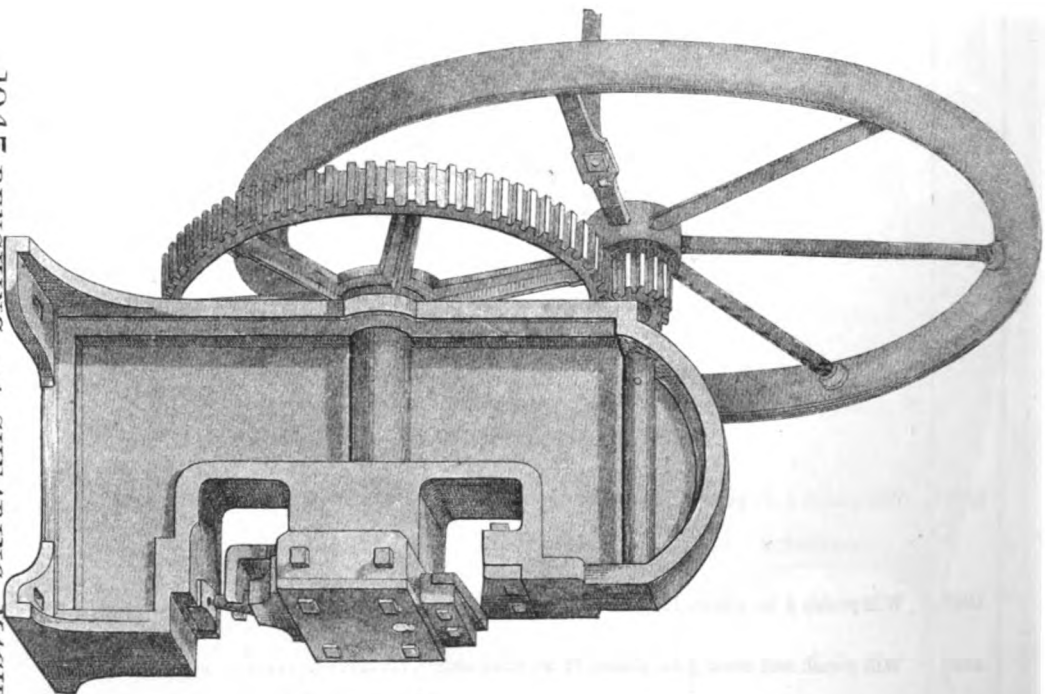
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

1046. PUNCHING and SHEARING MACHINE.



1045. PUNCHING and SHEARING MACHINE.

**ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

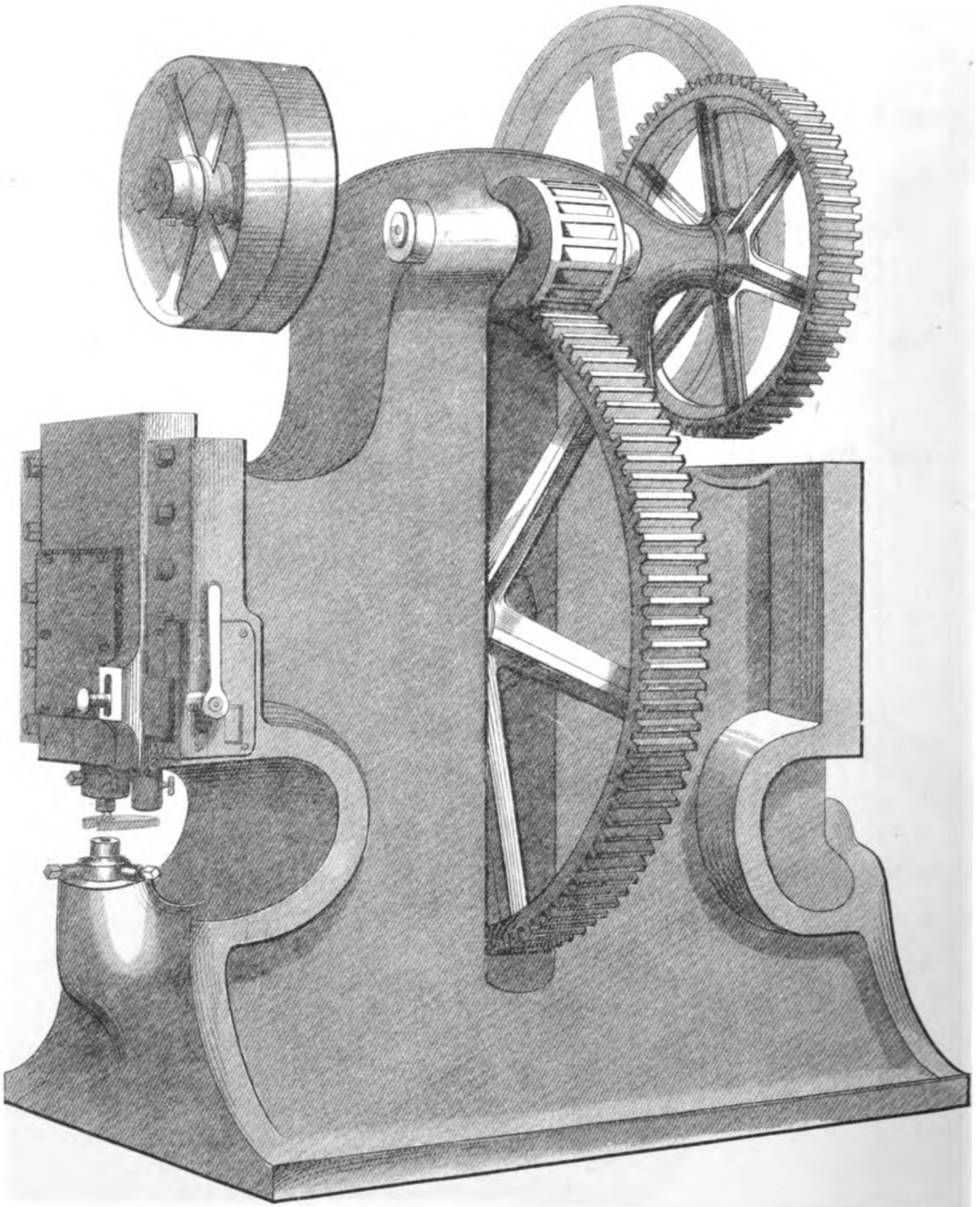
EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

PUNCHING AND SHEARING MACHINES.

Dis- count.	No.		£	s.	d.
	1047	Will punch and shear $\frac{3}{4}$ plates, 12 in. from edge			
		This machine is arranged to punch at one end, and shear at the other, and either slide can be thrown out of gear independent of the other.			
	1048	Will punch 1 in. holes through 1 in. plates, 24 in. from edge, and shear 1 in. plates 18 in. from edge. Fitted as No. 1047			
	1049	Will punch 1 in. holes through 1 in. plates, 14 in. from edge			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

1049, *PUNCHING and SHEARING MACHINE.*

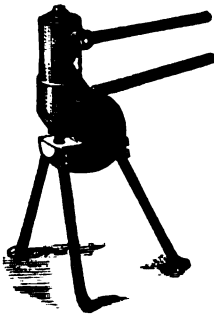
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

PATENT PORTABLE HYDRAULIC PUNCHING BEARS, FOR SHIP BUILDERS, BOILER MAKERS, COPPER SMITHS, RAILWAYS, ENGINEERS, &c.



1052 A.
OPEN MOUTH BEAR.

These powerful Hydraulic Punching Bears are recommended as being much quicker and easier in operation than any other kind yet introduced, whilst they are equally portable, durable, and compact. They can be worked in any position, and the larger sizes can be adapted for steam power, if required. The legs can be easily detached, when necessary, for use in confined situations.

A large number of these Bears have been supplied for Government and Railway use, and are found to give general satisfaction.

In using these Punches, it is only necessary to screw up the stop valve, and work the upper lever until the iron is punched through, then unscrew the stop valve and depress the lower lever to throw up the Punch for repeating the operation.

PRICES OF OPEN MOUTH BEAR,

Including One Punch and Die of the Largest Size.

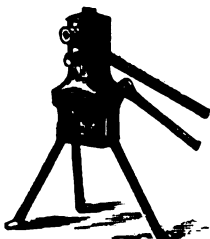
	£	s.	d.
No. 1 will punch up to $\frac{3}{4}$ in. through $\frac{1}{2}$ in. plate	10	0	0
" 2 " " " $\frac{7}{8}$ in. " $\frac{3}{4}$ in. "	13	10	0
" 3 " " " 1 in. " $\frac{3}{4}$ in. "	16	16	0
" 4 " " " $1\frac{1}{4}$ in. " 1 in. "	33	0	0
" 5 " " for 1 in. Steel Rails	45	0	0

Space from centre of Punch to back of Gap, $1\frac{1}{2}$ in. For each inch extra add 15 per cent. on the above prices.

EXTRA PUNCHES AND DIES.—Round, 18/6; Oval and Square, 26/6 per pair.

With No. 1 Machine a man can punch three holes in one minute.

PATENT PORTABLE HYDRAULIC PUNCHING BEAR, FOR IRON OR STEEL RAILS, GIRDERS, &c.



1052 E.
CLOSE MOUTH FOR RAILS,
GIRDERS, &c.,

The description given with the Open Mouth Bear, shown above, applies also to the Close Mouth Bear, illustrated by the annexed engraving.

These Bears have been supplied to many English and Foreign Railway Companies, and are made to suit any section of rail. In ordering them, either a piece of the rail, or a full-sized sectional sketch should be sent.

PRICES OF CLOSE MOUTH BEAR,

Including One Punch and Die of the Largest Size.

	£	s.	d.
No. 1 will punch up to $\frac{3}{4}$ in. through $\frac{1}{2}$ in. plate	18	15	0
" 2 " " " 1 in. " $\frac{3}{4}$ in. "	26	10	0
" 2A " " " $1\frac{1}{4}$ in. " $\frac{3}{4}$ in. "	33	7	0
" 3 " " " $1\frac{1}{4}$ in. " 1 in. "	40	0	0
" 4 " " 1 in. Steel Rails	51	0	0

WEIGHT.—No. 1, 80 lbs.; No. 2, 150 lbs.; No. 2A, 200 lbs.; No. 3, 250 lbs.; No. 4, 350 lbs.

EXTRA PUNCHES AND DIES.—Round, 18/6; Oval and Square, 26/6 per pair.

NOTE.—For extra hard Iron Rails a good margin of power is recommended.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

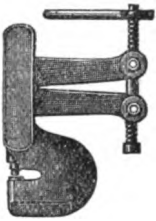
ENGINEERS' TOOLS.—Continued.

PATENT "DUPLIX" LEVER PUNCHES,

FOR IRON SHIPBUILDERS, RAILWAY COMPANIES, ENGINEERS,

And all Workers in Iron.

POWERFUL, PORTABLE, SIMPLE, AND EASY TO WORK.



1052 B.

OPEN MOUTH PUNCH.

These celebrated Punches are now made of two descriptions, viz., Open and Close Mouth.

The Open Mouth Punches will be found invaluable to Iron Shipbuilders, Boiler Makers, Engineers, and all workers in Iron. They possess great power, and will punch the heaviest boiler and ship plates, angle and other iron, with ease and great rapidity.

The Close Mouth Punches have been designed expressly for punching Iron and Steel Rails, and have been supplied to several Railway Companies, both at home and abroad, for this purpose.

These Punches require no skilled labour to use them, nor are they liable to break, or get out of repair. They are made of the very best materials, and exhibit the highest mechanical ingenuity in their design and construction. They are so simple and their application so apparent, that directions for use are quite unnecessary.

Prices of Open Mouth Punches.

No.	Centre of Punch to back of Gap.	£	s.	d.
1, to punch $\frac{1}{2}$ in. through $\frac{1}{2}$ in. plate, $1\frac{1}{2}$ in.	$1\frac{1}{2}$ in.	4	10	0
2, " " " " " " " " " " " "	$1\frac{1}{2}$ " "	6	0	0
3, " " " " " " " " " " " "	2 " "	8	15	0
4, " " " " " " " " " " " "	$2\frac{1}{2}$ " "	14	0	0

1052 F. CLOSE MOUTH PUNCH.

Prices of Close Mouth Punches.

No.	£	s.	d.
1, to punch $1\frac{1}{2}$ in. hole through $\frac{3}{4}$ in. iron rails	23	10	0
2, " " $1\frac{1}{2}$ " " " " $\frac{1}{2}$ " steel " "			

The prices include one round Punch and Die of the largest size. Any other shape charged extra.

Extra Punches and Dies—To Punch	..	..	..	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{7}{8}$	1	$1\frac{1}{2}$	$1\frac{1}{2}$	inch.
Round	..	..	..	5/6	6/0	6/9	8/0	9/6	10/6	13/0	per pair.
Oval or Square	..	..	..	10/9	12/0	13/6	16/0	18/9	20/0	26/0	..

SCREW PUNCHING BEARS.



1052 G.

SCREW PUNCHING BEAR.

Sizes and Prices, including One Punch and Die.

No.	£	s.	d.
No. 1, to punch $\frac{1}{2}$ in. through $\frac{1}{2}$ in. Iron	25 lbs.	2	10 0
" 2, " " " " " " " " " " " "	40 " "	3	0 0
" 3, " " " " " " " " " " " "	60 " "	4	0 0
If with Ratchet Lever..	extra	1	10 0
" Plain	net extra	0	4 6

Extra Punches and Dies.

Round, 12/6 per pair. Any other shape charged extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

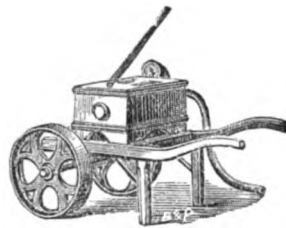
EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

HYDRAULIC PROVING PUMPS, FOR TESTING BOILERS, PIPES, TANKS, &c.



1052 H.



1052 J.

TRIPOD PROVER,

With gun metal pump, gauge to test to 200 lbs. per square in., flexible suction and delivery pipe, and brass connections complete (without pail). PRICE, £10 15s. Weight, 0 cwt. 2 qrs. 0 lbs.

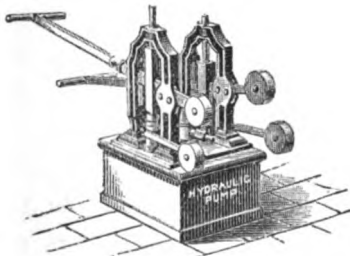
BARROW PROVER,

With best gun metal pump in cast iron cistern. Gauge to test to 200 lbs. per square in., and flexible delivery pipe, with brass connection, mounted on strong barrow, complete. PRICE, £19 7s. 6d.; weight, 2 cwt. 3 qrs. 0 lbs. If without barrow, £2 less; weight without barrow, 1 cwt. 2 qrs. 0 lbs.

The above Provers can be made for any pressure required.

HYDRAULIC PRESSURE PUMPS,

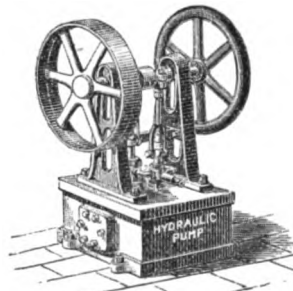
To give a pressure of 2 tons per square inch.



1052 AK.

FOR HAND POWER.

	£	s.	d.
With one 1 in. Pump	25	10	0
With two Pumps (as illustration), viz., one each 1 in. and 2 in.	33	10	0



1052 AJ.

FOR STEAM POWER.

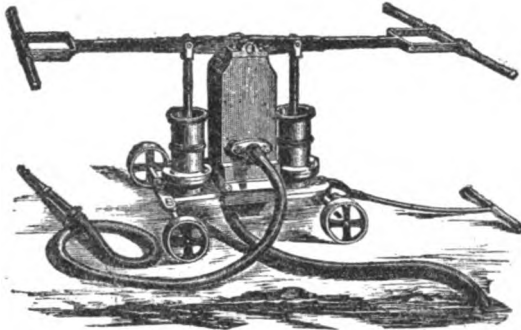
	£	s.
With two Pumps (as illustration), viz., one each 1 in. and 2 in.	50	0 0
With three Pumps, viz., one each 1 in., 1½ in., and 2 in.	80	0 0

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



1052 AM.

PORTABLE IRRIGATING PUMP AND FIRE ENGINE.

This simple arrangement of Force Pump makes it a most convenient Irrigating Pump, which may also be used, as required, for a Fire Engine or other purposes.

It is fitted in the best and most substantial manner, has bored brass barrels, doorway for ready access to the valves, and large air vessel, the upper part of which forms the fulcrum, upon which the rocking lever turns.

The Rocking Lever has double handles, fitting into sockets, so that they can be readily unshipped for packing or stowing away when not in use.

It is finished complete, with levers and brass union connections, for suction and delivery hose, and mounted on four wheels, with iron carriage and drag handle.

SIZES AND PRICES.

						£	s.	d.
1052 AM.	With two 4 in. brass barrels for 1500 gallons per hour	..	..	..	..	20	0	0
..	5 in. .. 2500 ..	..	..	..	..	28	0	0
..	6 in. .. 3500 ..	..	..	..	..	35	0	0
..	7 in. .. 5000 ..	..	..	..	..	46	0	0

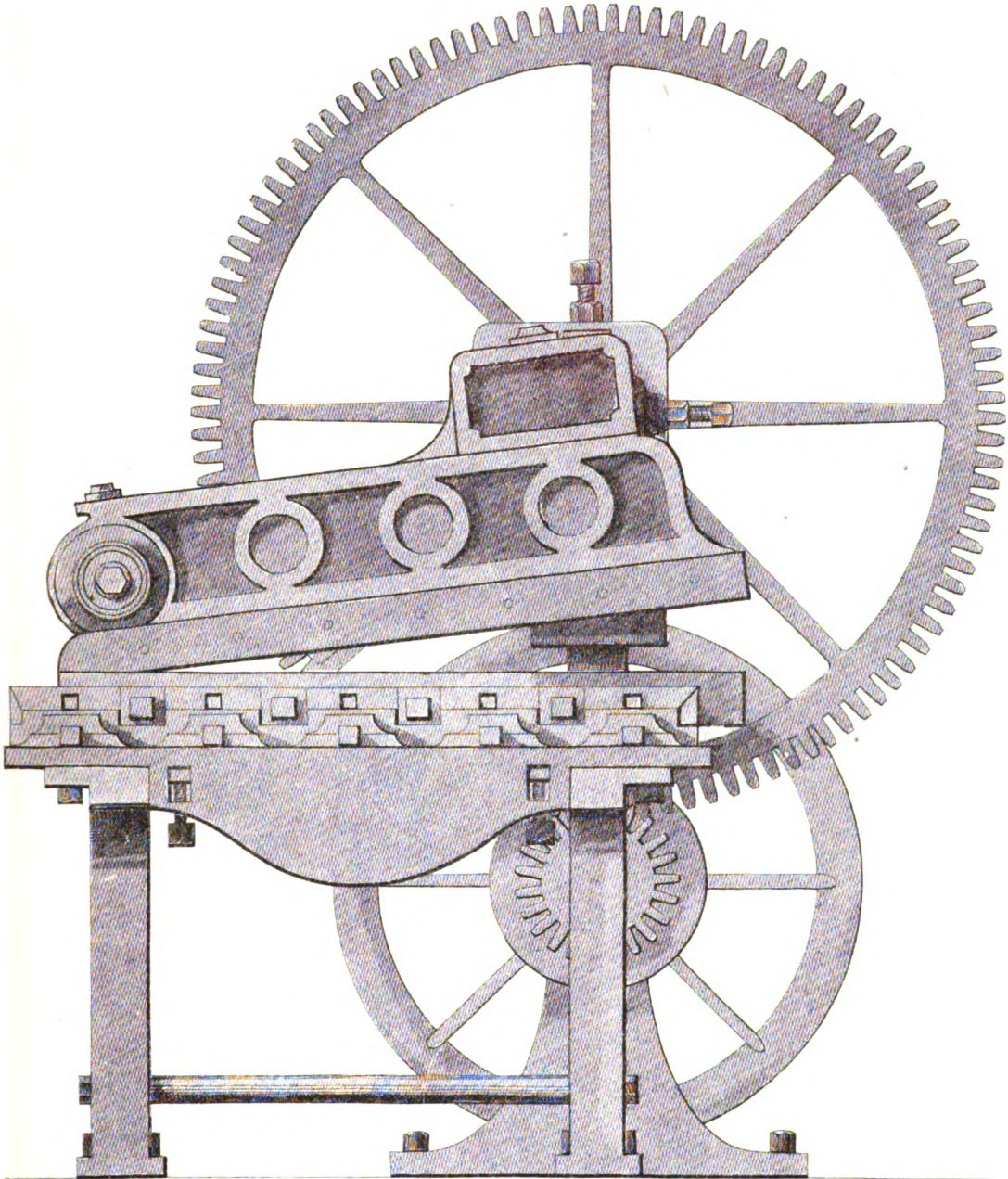
India rubber and canvas delivery hose, unions, branch pipes, suction strainers, &c., supplied to customers' requirements, extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



1056, *BOILER PLATE SHEARS.*

WITH LONG BLADES FOR PLATE OR SHEET PARING.

No. 1.—Cutters, 24 in. long.....	£
No. 2.—Do. 30 "	£
No. 3.—Do. 36 "	£
No. 4.—Do. 42 "	£
No. 5.—Do. 48 "	£

CIRCULAR SHEARS to order.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

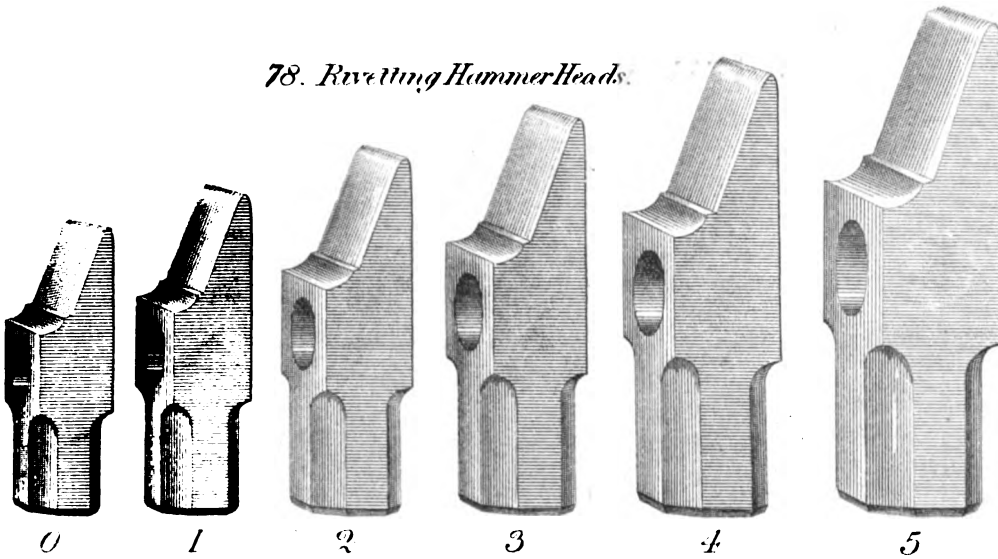
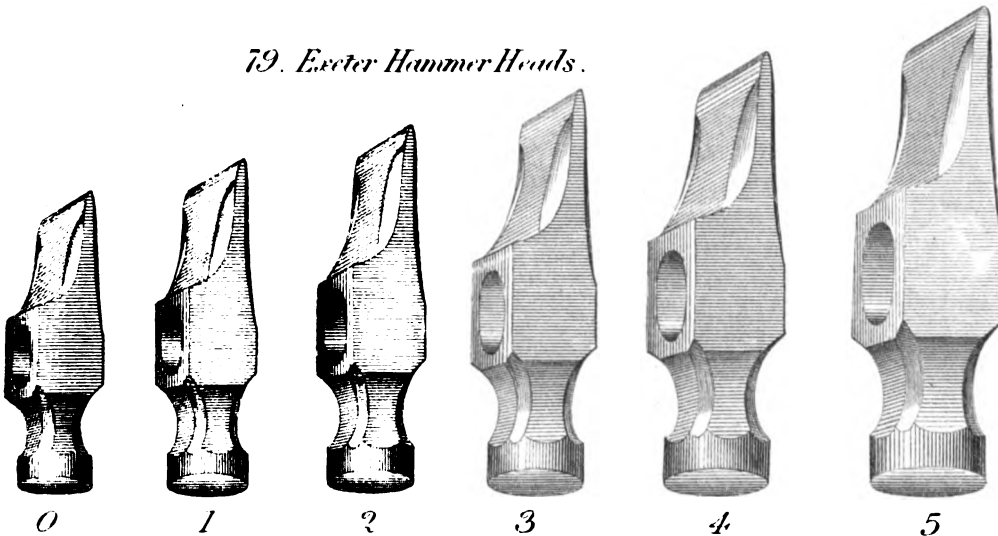
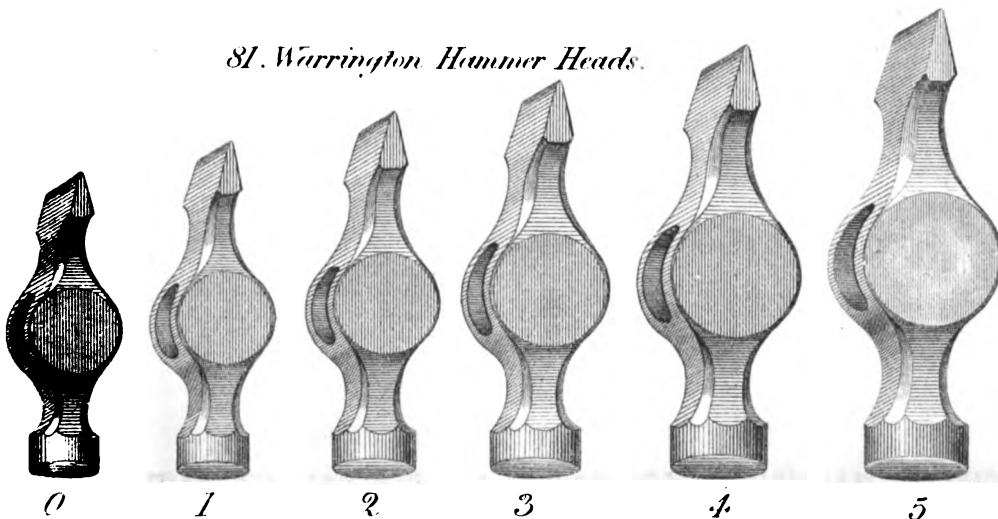
JOINERS' HAMMER HEADS.

Dis- count.	No.	No. 0	1	2	3	4	5	6	7	8	9	10	11	12
	78	Rivetting Hammer Heads	4/0	4/6	5/6	6/6	7/6	8/6	9/6	11/0	12/6	14/6	16/6	18/6 21/0 doz.
	79	Best black Exeter Heads	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0 24/0 ..
	80	Ditto ditto, with claw	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0 24/0 ..
	81	Ditto Warrington Heads	10/6	10/6	11/6	13/0	14/6	16/0	18/0	20/0	22/0	24/0	26/0	28/0 30/0 ..
	82	Double-faced Hammer Heads ..	10/0	12/0	15/0	18/0	..	..	..	..	..	..	..	..
	83	London veneering ditto ..	..	..	..	14/0	15/0	16/0	18/0	20/0	..	..	..	..
	83A	Best clench Hammer Heads ..	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0 24/0 ..

Any of the above, if Handled with Polished Beech Handles, Nos. 00 to 6, 2/0.

Nos. 7 to 12, 3/0 per dozen extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*78. Rivetting Hammer Heads.**79. Exeter Hammer Heads.**81. Warrington Hammer Heads.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

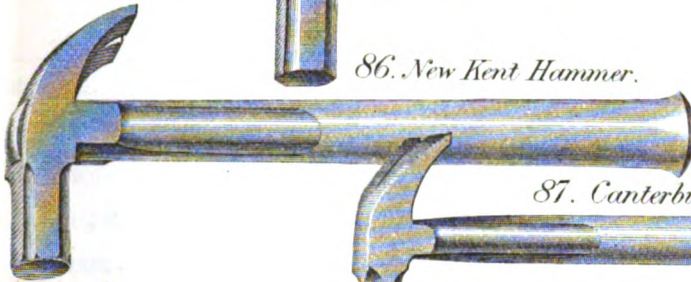
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

HAMMERS.

Dis- count.	No.															
		No.	00	0	1	2	3	4	5	6	7	8	9	10	11	12
	84	Bright Kent Hammers ..	6/0	8/0	9/0	11/0	13/0	15/0	17/0	19/0	22/0	25/0	28/0	31/0	34/0	38/0 doz
	84B	Black Kent Hammers.... ..	7/0	8/0	10/0	12/0	14/0	16/0	18/0	21/0	24/0	27/0	30/0	33/0	37/0 ..	
	85	Bright solid cheek Kent Hammers	9/0	10/0	12/0	14/0	16/0	18/0	20/0	23/0	26/0	30/0	34/0	38/0	42/0 ..	
	86	New Kent Hammers	12/0	13/0	15/0	17/0	19/0	21/0	23/0	26/0	29/0	32/0	36/0	40/0	44/0 ..	
	87	Canterbury	13/0	14/0	16/0	18/0	21/0	24/0	27/0	30/0	33/0	36/0	40/0	44/0	48/0 ..	
	88	Scotch Garden Hammers	18/0	20/0	22/0	24/0	27/0	30/0	..	..	..	..	..	..	..
	89	Bright	10/0	12/0	14/0	16/0	18/0	20/0	22/0	..	..	..	..	..	..
	90	Glaziers'	18/0	20/0	22/0	..	..	..	..	..	..	..	..	..	..
	91	London	20/0	22/0	24/0	..	..	..	..	..	..	..	..	..	..
	92	Bright Lathing	12/0	14/0	16/0	18/0	20/0	24/0	..	..	..	..	..	..	..
	92B	Black	11/0	13/0	15/0	17/0	19/0	23/0	..	..	..	..	..	..	..
	93	Brick	12/0	14/0	16/0	18/0	20/0	24/0	..	..	..	..	..	..	..
	94	Shoe	10/0	11/6	13/0	15/0	17/0	19/0	..	..	..	..	..	..	..
	95	Cramping	10/0	11/6	13/0	15/0	17/0	19/0	..	..	..	..	..	..	..

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*84. Bright Kent Hammer.**85. Solid Cheek Kent Hammer.**86. New Kent Hammer.**87. Canterbury Hammer.**88. Scotch Garden Hammer.**Chequer'd Face.**89. Bright Garden Hammer.**Chequer'd Face.**90. Glazier's Hammer.**91. London Glazier's Hammer.**92. Bright Lath Hammer.**93. Brick Hammer.**94. Shoe Hammer.**95. Cramping Hammer.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

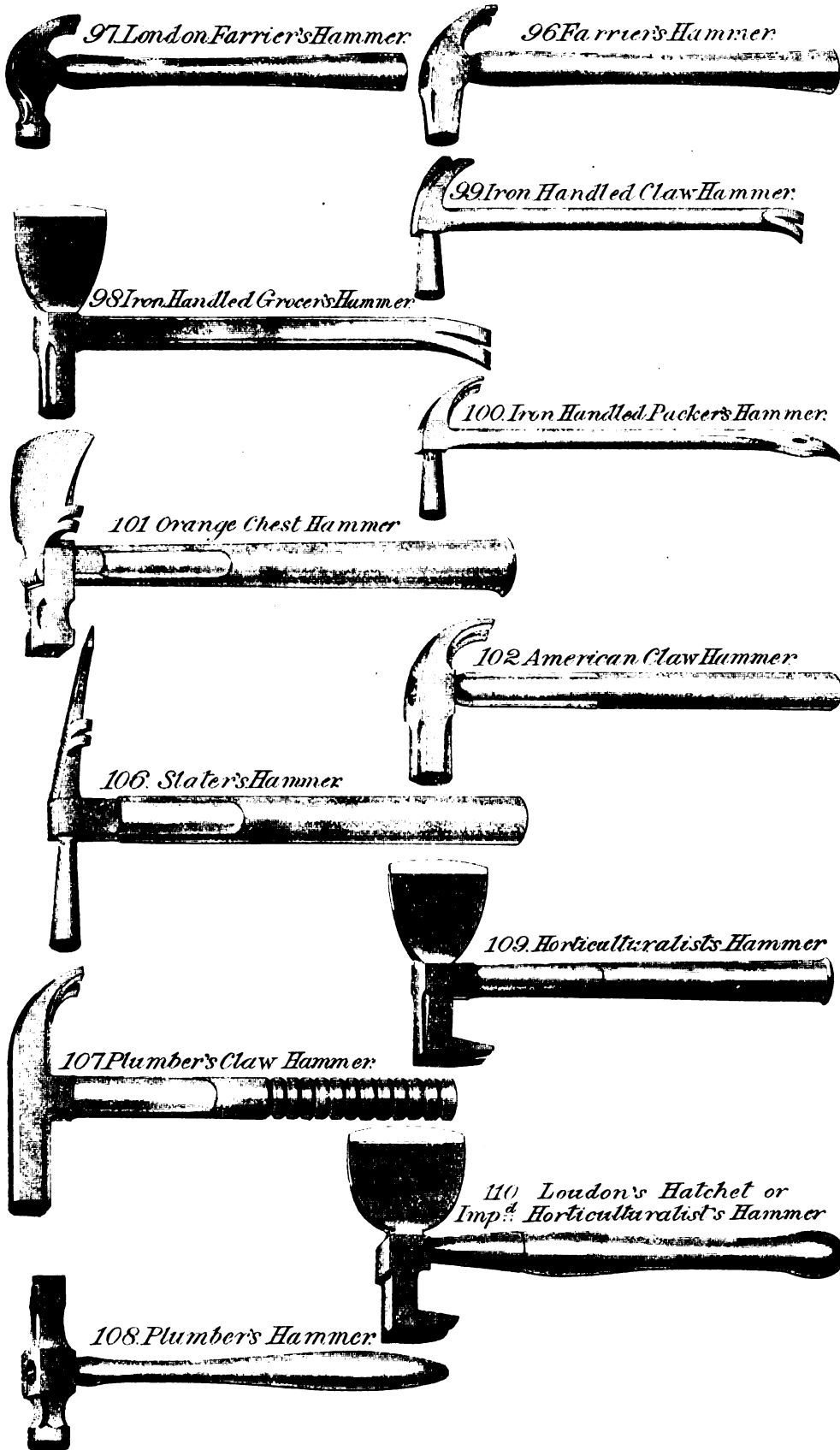
EDWARD BROOKES.

HAMMERS.—Continued.

Dis- count.	No.							No. 1	2	3	4	
	96	Farrriers' Shoeing Hammers	..	..	..	..	..	10/0	12/0	14/0	..	per doz.
	97	London " "	..	..	..	..	..	17/0	19/0	21/0	..	"
	98	Iron-handled Grocers'	..	..	..	..	..	25/0	30/0	35/0	40/0	"
	99	" Claw "	..	..	..	..	..	18/0	21/0	24/0	27/0	"
	100	" Packers' "	..	..	..	..	..	18/0	21/0	24/0	27/0	"
	101	Orange-chest "	..	..	..	..	..	27/0	30/0	..	..	"
	102	American Claw "	..	..	..	..	..	32/0	34/0	36/0	..	"
	103	" " without Langats	..	..	..	..	..	22/0	24/0	26/0	..	"
	104	" " " Solid Cast Steel	..	..	..	..	..	26/0	28/0	30/0	..	"
	105	" " with Langats,	..	..	..	..	..	36/0	38/0	40/0	..	"
	106	Slaters' Peck "	..	..	..	..	..	29/0	..	..	..	"
	106A	" " without Claw	..	..	..	..	..	26/0	..	..	..	"
	106B	Slaters' Axe or Knife, with Pick	..	..	..	..	..	42/0	45/0	..	..	"
	107	Plumbers' Claw Hammers	..	..	..	..	..	27/0	30/0	33/0	..	"
	108	" Pane "	..	..	..	..	..	15/6	17/6	20/0	..	"
	109	Horticulturalists'	..	..	..	..	..	27/0	30/0	..	..	"
	110	London's Hatchet, or Improved Horticulturalists' Hammer	..	..	..	..	..	60/0	..	..	..	"

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

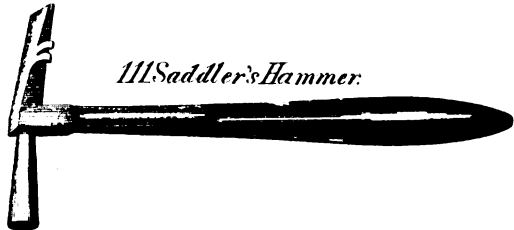
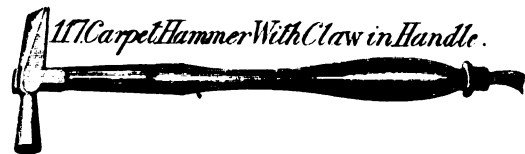
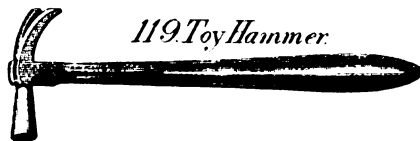
HAMMERS.—Continued.

Dis- count.	No.		No. 1				2	3	4						
	108A	Ladies' Claw Hammers	13/0	15/0	17/0	19/0	per doz								
	109A	Ladies' Rivetting „	13/0	15/0	17/0	19/0	„								
	110A	Gentlemen's „	13/0	15/0	17/0	19/0	„								
	111	Best Saddlers' „	18/0	20/0	22/0	25/0	„								
	112	Upholsterers' „	13/0	15/0	17/0	19/0	„								
	113	London Upholsterers' Hammers.....	17/0	19/0	21/0	24/0	„								
	114	Benwell's „ „ solid head	24/0	26/0	28/0	..	„								
	115	Coach Trimmers' „	25/0	27/0	29/0	..	„								
	115A	Cabriolet „	24/0	26/0	28/0	..	„								
	116	Carpet „	18/0	20/0	..	..	„						
	117	Carpet „ with claw in handle	12/0	14/0	..	..	„						
	118	Gentlemen's „ common	10/6	12/6	15/0	..	„								
	119	Toy „	8/0	10/6	12/6	..	„								
			No. 0	1	2	3	4	5	6	7	8	9	10	11	12
	120	Exeter Hammers, handled	8/6	9/6	10/0	11/6	13/0	14/6	16/0	19/0	21/6	23/0	24/6	26/0	28/6
	121	Best Clench „ „	8/6	9/6	10/0	11/6	13/0	14/6	16/0	19/0	21/6	23/0	24/6	26/0	28/6

Gentlemen's, Ladies', and Upholsterers' hammers, with hard wood handles, 6/0 per doz. extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

*108A. Ladies Claw Hammer.**109A Ladies Revolving Hammer.**110A. Gentleman's Hammer.**111Saddler's Hammer.**112Upholsterer's Hammer.**114Benwell's Upholsterer's Hammer.**113London Upholsterer's Hammer.**115. Coach Trimmers Hammer**116Carpet Hammer.**117Carpet Hammer With Claw in Handle.**118Gentleman's Hammer**119.Toy Hammer.**120Exeter Hammer Oval Handles**121Best Clench Hammer Oval Handles*

THE ILLUSTRATED SHEFFIELD LIST.

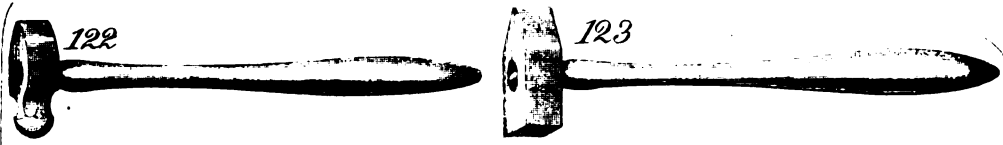
EDWARD BROOKES.

HAMMERS.—Continued.

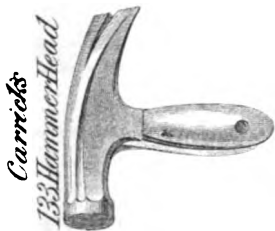
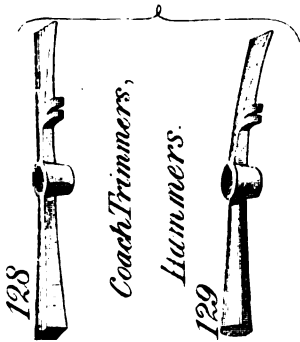
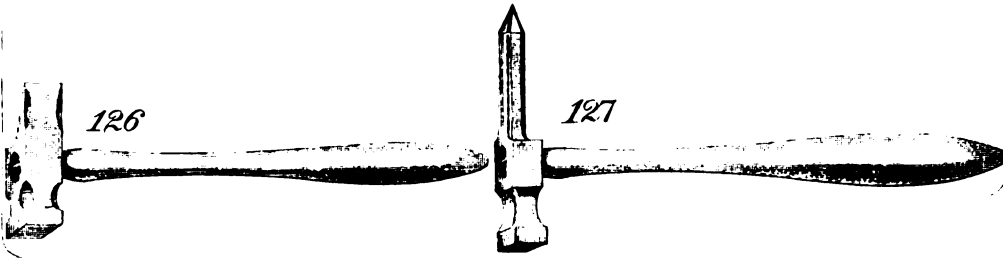
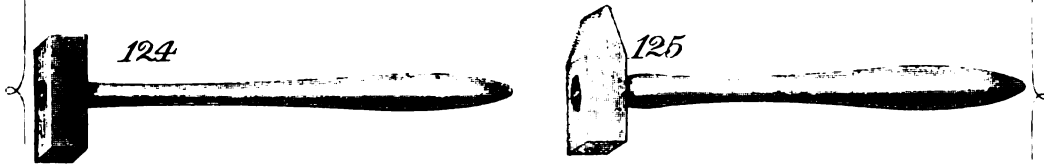
Dis- count.	No.							
			No. 122	123	124	125	126	127
		Mineralogists' Hammers ..	14/6	14/6	14/6	14/6	14/6	14/6 per doz.
						No. 1	2	3
	128	Trimmers' Hammer Heads ..	..	..	..	24/0	28/0	32/0 per doz.
	129	Ditto .. ..	..	..	..	24/0	28/0	32/0 ..
						No. 1	2	3
	130	Pin Hammers	14/0	16/0	20/0	..	..	.. per doz.
	131	Ship Carpenters' Claw Hammer Heads ..	10/6	12/6	15/6	18/6	22/0	26/0 ..
						No. 1	2	3
	132	Shingling Hammer Heads .. ..	..	..	..	24/0	26/0	28/0 per doz.
	133	Garriok's .. ..	..	..	..	24/6	27/6	30/6 ..
	134	Ditto handled	..	..	..	30/6	33/6	36/6 ..
	135	Bosneath .. ..	..	..	..	36/0	40/0	44/0 ..
	136	Ditto handled	..	..	..	42/0	46/0	50/0 ..
	137	Masons' Hammers, 8 lbs. each and upwards, 9d. per lb.						
	138	Coppering Hammers, 18/6 per doz.						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



MINERALOGIST'S HAMMERS.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

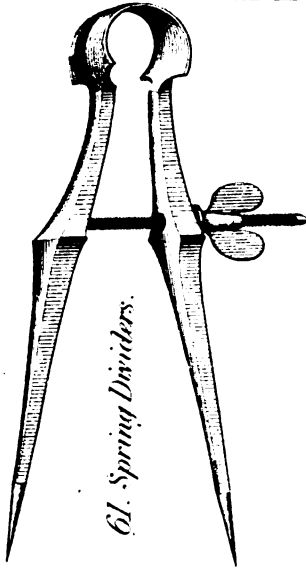
EDWARD BROOKES.

LANCASHIRE TOOLS.

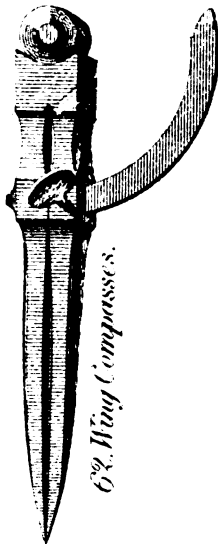
Dis- count.	No.		3½	4	4½	5	5½	6	7	8	9	10	11	12	inch.	
	61	Spring Dividers, black.....	32/6	32/6	32/6	32/6	35/0	37/0	45/0	52/0	..	..	..	..	doz.
		" bright	37/0	37/0	37/0	37/0	41/0	45/0	52/0	60/0	..	..	..	..	"
	62	Wing Compasses, black .....	..	..	..	21/6	..	24/0	26/0	30/0	34/0	36/6	44/6	55/0	..
	62A	" bright .....	..	..	..	25/6	..	29/0	32/6	36/0	39/6	43/3	53/6	65/0	..
	63	Plain Compasses, black .....	..	15/0	..	15/0	..	19/0	22/0	25/0	28/0	31/0	..	..	..
		" bright.....	..	20/0	..	20/0	..	24/0	27/0	30/0	33/0	36/0	..	..	..
	63A	Rack Compasses, black .....	..	..	..	27/0	..	29/0	31/9	35/0	37/6	41/0	48/0	57/6	..
		" bright .....	..	..	..	32/6	..	36/0	39/6	43/3	47/0	50/6	60/6	72/0	..
	64	Plain Callipers, black .....	..	15/0	..	15/0	..	19/0	25/0	29/0	32/0	35/6	..	..	..
		" bright.....	..	19/0	..	19/0	..	25/0	29/0	35/0	40/0	44/0	..	..	..
	65	Spring Callipers, black .....	..	..	..	37/0	..	45/0	52/0	60/0	72/0	..	..	..	..
		" bright .....	..	..	..	44/0	..	52/0	59/0	68/0	80/0	..	..	..	..
	65A	Wing Callipers, black .....	..	..	..	27/0	..	31/0	34/6	37/6	42/6	46/0	..	66/0	..
		" bright .....	..	..	..	31/0	..	36/0	39/6	45/6	51/6	55/0	..	79/6	..
	66	Rack Wing Callipers, black ....	..	..	..	35/0	..	38/6	42/0	46/0	52/0	56/0	66/0	77/0	..
		" " bright .....	..	..	..	40/0	..	44/6	48/0	55/0	61/0	65/0	79/0	92/0	..
	67	Steel Egg Callipers, bright ....	..	..	..	20/0	..	23/6	28/0	35/0	40/0	45/0	..	..	..
			3	3½	4	4½	5	5½	6	6½	7	7½	8	inch.		
	68	Flat Nose Pliers, black.....	13/0	13/6	14/0	14/6	15/0	17/6	22/0	28/6	33/6	41/0	50/0	doz.		
		" " bright	17/0	17/6	18/0	18/6	19/0	21/6	26/0	32/6	37/6	45/0	54/0	..		
	69	Round Nose Pliers, black.....	13/0	13/6	14/0	14/6	15/0	17/6	22/0	28/6	33/6	41/0	50/0	..		
		" " bright	17/0	17/6	18/0	18/6	19/0	21/6	26/0	32/6	37/6	45/0	54/0	..		
	70	Clock Cutting Nippers, black .....	..	..	..	26/0	26/0	28/6	34/6	40/6	46/0	..	..	..
		" " bright .....	..	..	..	31/0	31/0	33/6	39/6	45/6	51/0	..	..	..
	71	Bellhangers' Pliers, black .....	..	..	..	..	24/6	24/6	27/0	34/6	44/0	..	..	..
		" " bright .....	..	..	..	..	29/6	29/6	32/0	39/6	49/0	..	..	..
	710	Bellhangers' Pliers, with loose cutters ..	..	..	..	..	..	40/0	..	45/0	..	..	55/0	..	
	71A	Side Nippers, black .....	..	..	..	..	25/3	27/6	34/6	..	..	..	..	..
		" bright.....	..	..	..	..	30/0	32/6	38/6	..	..	..	..	..
	71B	Nipper Pliers, black .....	..	..	..	..	..	27/9	30/0	..	43/6	..	..	..
		" bright.....	..	..	..	..	..	32/6	36/0	..	50/6	..	..	..
	72	Railway Ticket Pliers, black, 27/0 per dozen ; ditto, bright, 35/0 per dozen.														
			3	3½	4	4½	5	5½	6	inch.						
	73	Hand Vice, black, best Lancashire quality	28/0	30/0	32/6	37/0	49/0	60/0	75/0	doz.						
	74	" with key, 12/0 per dozen more than No. 73.														
	75	Common Hand Vice	20/0	20/0	20/0	20/0	26/0	32/0	40/0	..						
			1	1½	1½	1½	2	2½	2½	3	3½	3½	lbs. each.			
	76	Lancashire Bench Vice	8/0	8/6	9/2	10/0	10/8	11/3	11/8	12/1	12/6	13/0	13/4	each.		
	77	Common														
			3½	4	4½	4½	4½	5	lbs. each.							
	76	Lancashire Bench Vice	13/9	14/6	15/0	15/6	15/10	16/6	each.							
	77	Common														
			1	1½	2	2½	3	3½	4	lbs. each.						
	77A	Beck Irons	23/0	27/0	30/0	36/0	42/0	48/0	54/0	doz.						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



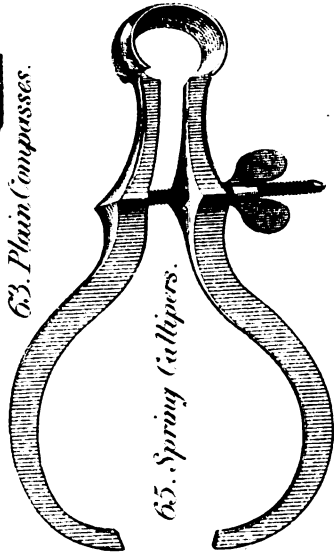
61. Spring Dividers.



62. Wing Compasses.

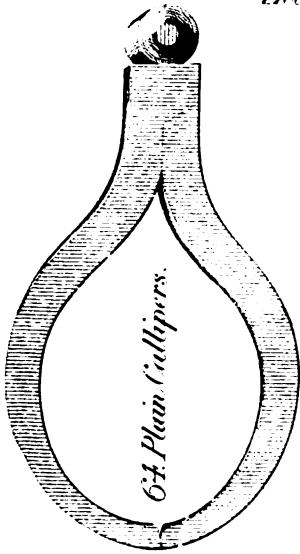


63. Plain Compasses.



65. Spring Callipers.

Lancashire Tools.



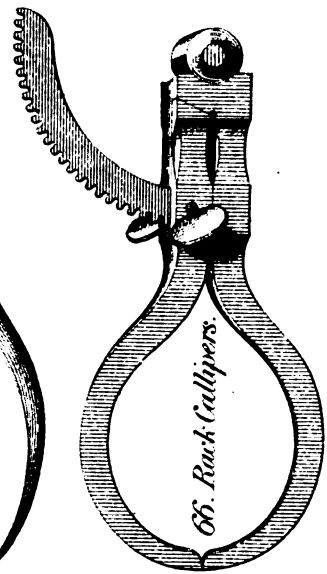
64. Plain Callipers.



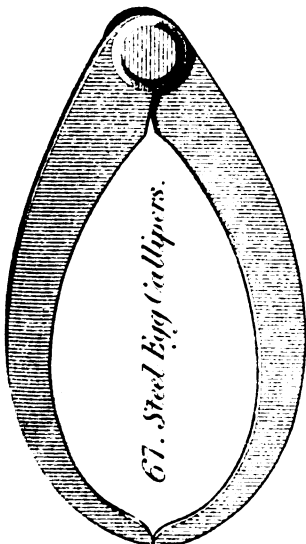
68. Flat Nose Pliers.



69. Round Nose Pliers.



66. Rack Callipers.



67. Steel Egg Callipers.



70. Rat-tail Tuck Pliers.



71. Bellhangers Pliers.



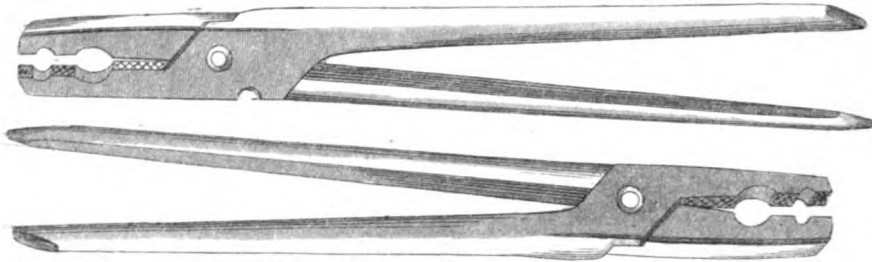
72. Check Cutting Vipers.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TELEGRAPH ERECTORS' TOOLS.

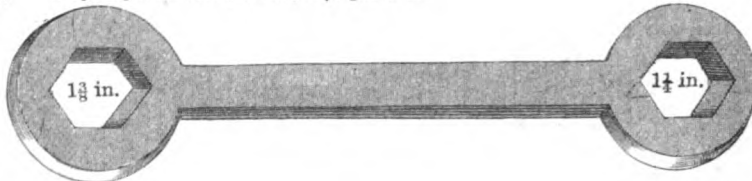
No. 81. Telegraph Erectors' Pliers, with cutter in joint, all steel, 12 in. long, 66/0 per doz.



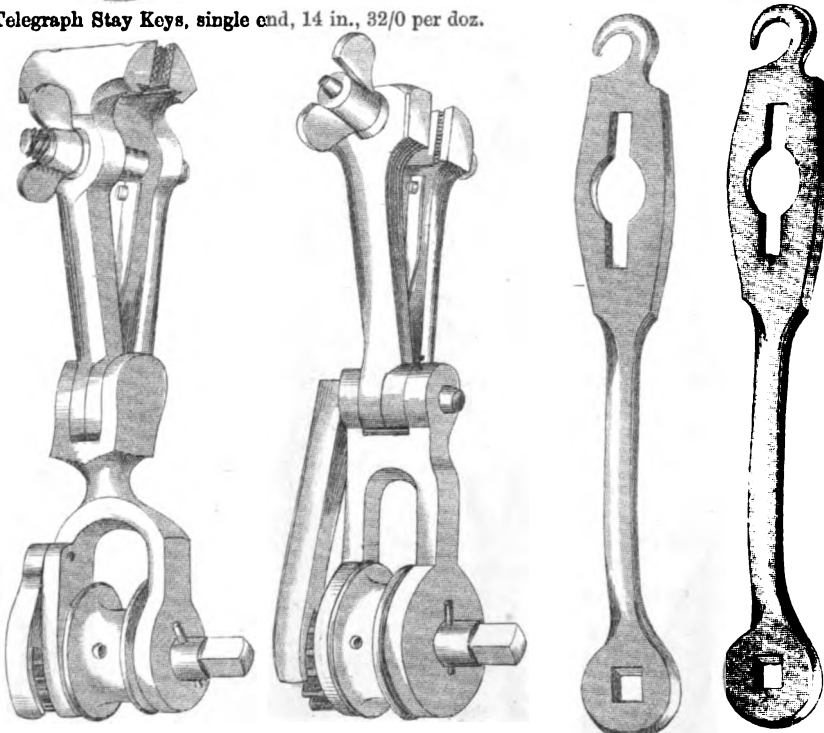
No. 80. Telegraph Erectors' Pliers, 12 in. long, all steel, 56/0 per doz.

No. 80A. „ „ Cutting Pliers, with loose cutters 6 7 8 in.
40/0 45/0 55/0 per doz.

No. 82. „ Stay Keys, all steel, 12 in., 48/0 per doz.



No. 82A. Telegraph Stay Keys, single end, 14 in., 32/0 per doz.



No. 83.

No. 84.

No. 83. KEYS FOR VICES.

No. 84. KEYS FOR VICES.

No. 83. Telegraph Draw Vice and Key	8	10 in. long.
No. 84. „ „ Dog Nose, and Key	22/0	24/0 each.
	22/0	24/0 „

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

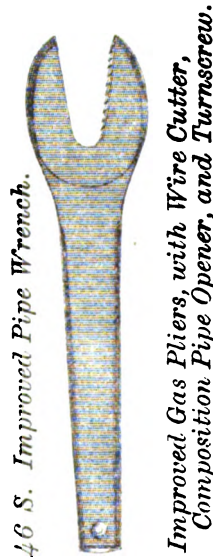
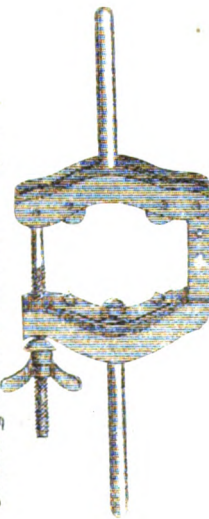
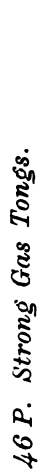
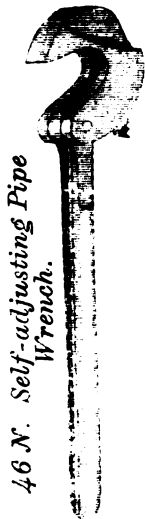
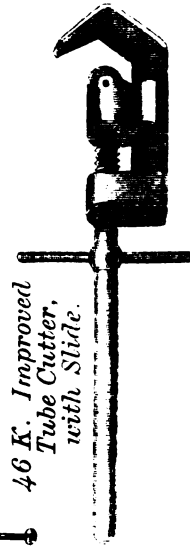
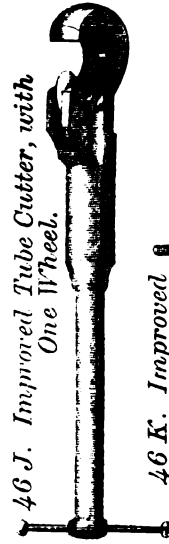
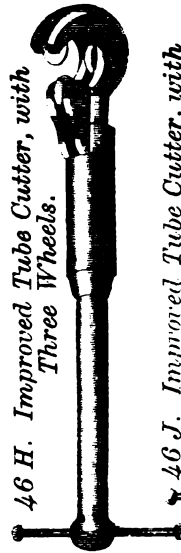
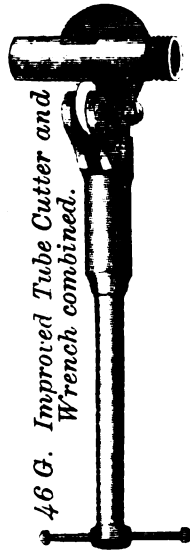
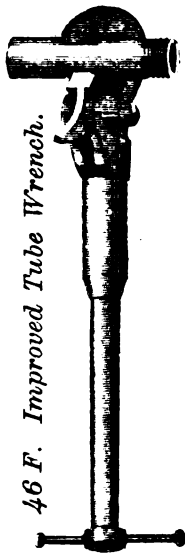
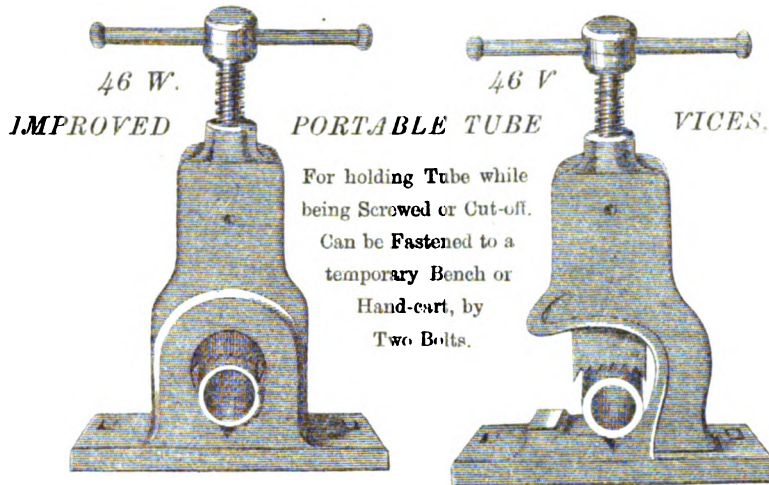
EDWARD BROOKES.

GASFITTERS' TOOLS.

DIS- COUNT.	No.		$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{1}{2}$ to $1\frac{1}{2}$	1 to 2	$1\frac{1}{2}$ to 3 inches.								
46f	Improved Tube Wrench	.. .. .	7/0	9/0	12/0	22/0 each.							
46o	Improved Tube Cutter and Wrench combined	.. .. .	$\frac{1}{2}$ to 1	$1\frac{1}{2}$ to 2	$2\frac{1}{2}$ to $3\frac{1}{2}$ inches.								
	Extra Cutters	.. .. .	17/0	26/0	45/0	each.							
		.. .. .	1/0	1/6	1/6	„							
46u	Improved Tube Cutter, with 3 Wheels	.. .. .	$\frac{1}{2}$ to 1	$1\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3 inches.								
	Extra Wheels	.. .. .	17/0	26/0	35/0	each.							
		.. .. .	1/0	1/6	1/6	„							
46v	Improved Tube Cutter, with 1 Wheel	.. .. .	$\frac{1}{2}$ to 1	1 to 2	$1\frac{1}{2}$ to 3 inches.								
	Extra Wheels	.. .. .	12/9	18/0	29/0	each.							
		.. .. .	1/0	1/6	1/6	„							
46x	Improved Tube Cutter, with Slide	.. .. .	$\frac{1}{2}$ to 1	$1\frac{1}{2}$ to 2	inches.								
	Extra Cutters	.. .. .	13/9	19/0	each.								
		.. .. .	1/0	1/6	„								
46m	Improved Adjustable Tube Cutter	.. .. .	$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	1 to 2 inches.							
		.. .. .	7/6	8/6	10/6	15/0 each.							
46n	Self-adjusting Pipe Wrench	.. .. .	$\frac{1}{2}$ to $\frac{1}{2}$	$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{1}{2}$ to $1\frac{1}{2}$	1 to 2							
		.. .. .	5/9	7/6	9/6	12/6							
		.. .. .	$1\frac{1}{2}$ to $2\frac{1}{2}$	$1\frac{1}{2}$ to 3 inches.	18/6	23/0 each.							
46p	Strong Gas Tongs { For Pipe	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$	inches.
	For Socket	17/6	21/6	23/6	27/6	32/0	37/0	46/0	54/0	60/0	69/0	78/0	per doz.
		21/0	23/6	27/0	32/6	38/0	45/0	52/0	58/6	66/0	74/0	80/0	„
46r	Improved Tube Cutter, for cutting cast iron main pipes	.. .. .	2 to 4	4 to 6	5 to 8 inches.								
	Extra Cutters	.. .. .	29/6	36/0	42/0	each.							
		.. .. .	1/6	1/6	1/6	„							
46s	Improved Pipe Wrench	$\frac{1}{2}$ to $\frac{1}{2}$	$\frac{1}{2}$ to 1	1 to $1\frac{1}{2}$	$1\frac{1}{2}$ to 2	2 to 3 inches.							
		2/0	5/0	7/0	10/0	12/0 each.							
46t	Improved Gas Pliers, with Wire Cutter, Composition	.. .. .	6	7	8	9 inches.							
46u	Pipe Opener, and Turnscrow	.. .. .	32/0	42/0	48/0	54/0 per doz.							
46v	Improved Portable Gas Tube Vices	.. .. .	No. 1	2	3								
46w		.. .. .	To take $\frac{1}{2}$ to $1\frac{1}{2}$	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3 inches.								
		.. .. .	12/6	18/0	27/0	each.							

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLIERS, CARPENTERS' PINCERS, & CUTTING NIPPERS.

PLIERS.

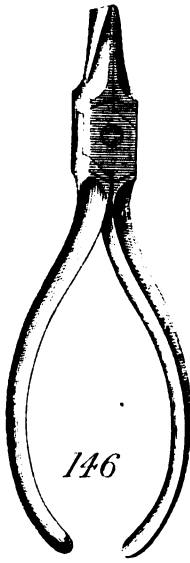
DIS- COUNT.	No.								
		No. 139	140	141	142	143	144	145	146
		3	3½	4	4½	5	5½	6	6½ in.
Bright Flat Nose Pliers	..	5/6	5/6	5/6	6/0	7/6	9/0	10/6	12/0 per doz.
		No. 147	148	149	150	151	152	153	154
		3	3½	4	4½	5	5½	6	6½ in.
Bright Round Nose Pliers	..	5/6	5/6	5/6	6/0	7/6	9/0	10/6	12/0 per doz.

CARPENTERS' PINCERS AND CUTTING NIPPERS.

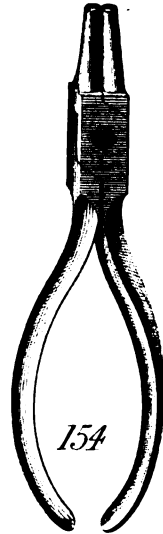
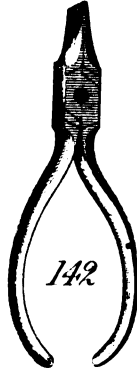
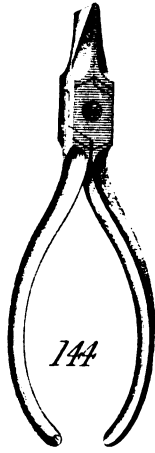
		No.	155	156	157	158	159	160	161	162	163	164	165	
			6	6½	7	7½	8	8½	9	9½	10	11	12	in.
Carpenters' Pincers	..	..	5/6	6/6	7/6	8/6	9/6	10/6	12/0	14/0	16/0	20/0	24/0	per doz.
		No.	166	167	168	169	170	171	172	173	174	175	176	177
			6	6½	7	7½	8	8½	9	9½	10	10½	11	12
Best Tower Pincers, Warranted	..	..	8/0	9/0	10/0	12/0	14/0	16/0	18/0	21/0	24/0	27/0	30/0	36/0
														per doz.
		No.	178	179	180	181	182	183	184	185	186	187	188	189
			6	6½	7	7½	8	8½	9	9½	10	10½	11	12
Best Lancashire Pin- cers, Warranted	..	..	11/0	12/0	13/6	15/0	17/0	20/0	23/0	26/0	29/0	..	..	..
														per doz.
		No.	190	191	192	193	194	195	196	197	198	199	200	
			6	6½	7	7½	8	8½	9	9½	10	11	12	in.
Best Tower Cutting Nippers, Warranted	..	..	11/0	13/0	15/0	17/6	20/0	23/0	27/0	30/0	33/0	40/0	48/0	per doz.

ENGINEER, MACHINIST, TOOL MAKER, & GENERAL MERCHANT, SHEFFIELD.

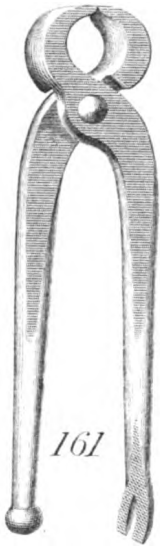
EDWARD BROOKES.



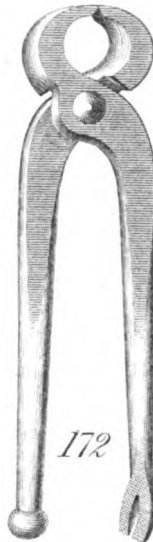
*Bright
Flat Nose Pliers.*



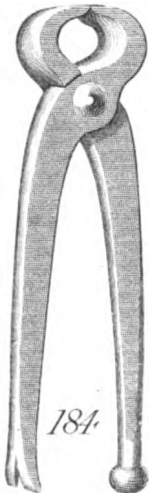
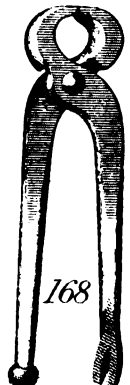
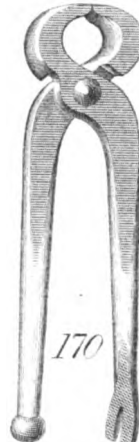
*Bright
Round Nose Pliers.*



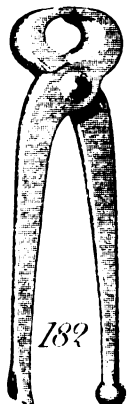
Carpenter's Pincers.



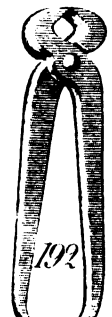
*Best Tower Pincers.
Warranted.*



*Best Lancashire Pincers.
Warranted.*



*Best Tower Cutting Nippers.
Warranted.*



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SHOE, SADDLERS' AND HARNESS PUNCHES, FARRIERS' PINCERS, &c.

Dis-
count.

No.

SHOE, SADDLERS', AND HARNESS PUNCHES.

No.	201	202	204	205	206	207	208	209	210	211	212
	2/9	3/0	3/6	4/0	4/0	4/0	4/6	5/0	6/0	7/0	8/0 per doz.
No.	213	214	215	216	217	218	219	220	221	222	223
	9/0	10/0	12/0	14/0	16/0	18/0	20/0	22/0	26/0	30/0	32/0 per doz.

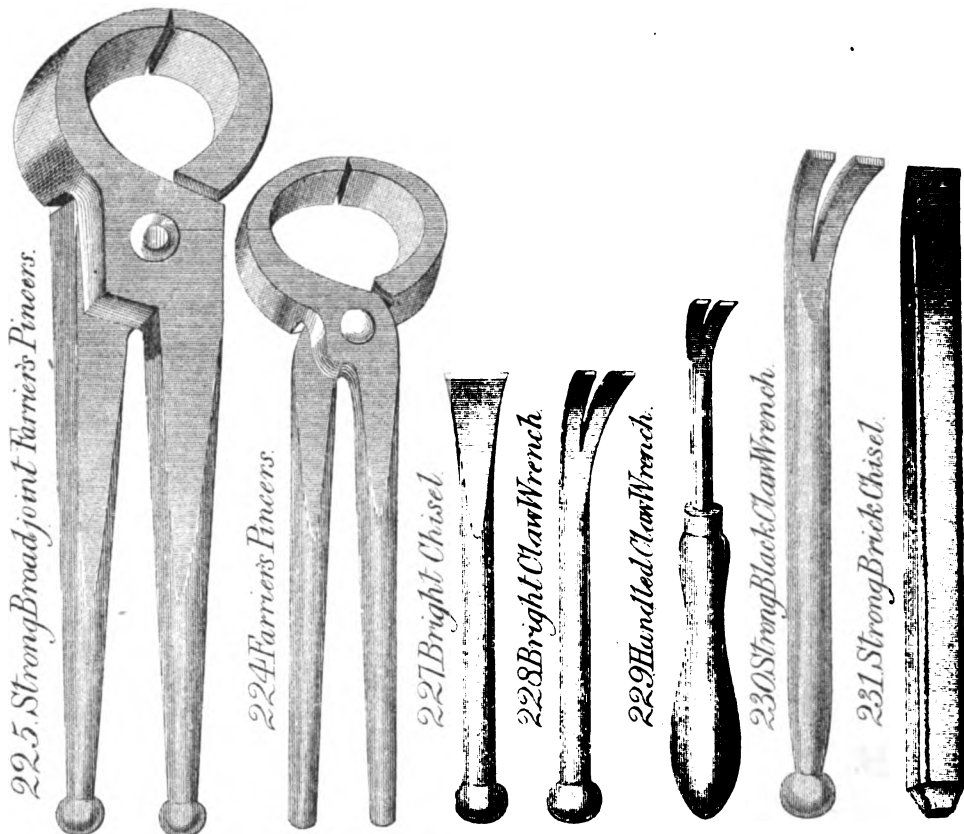
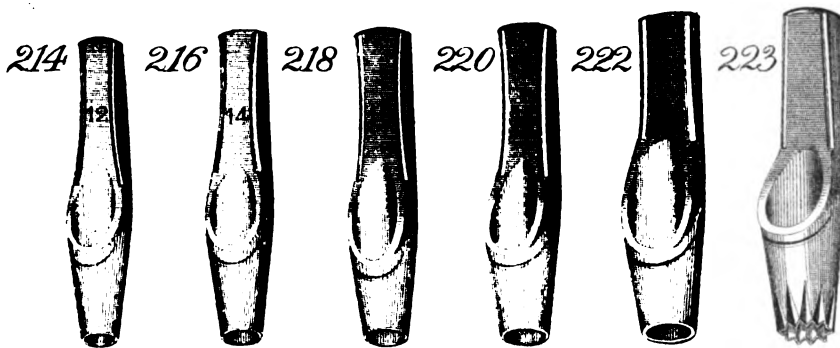
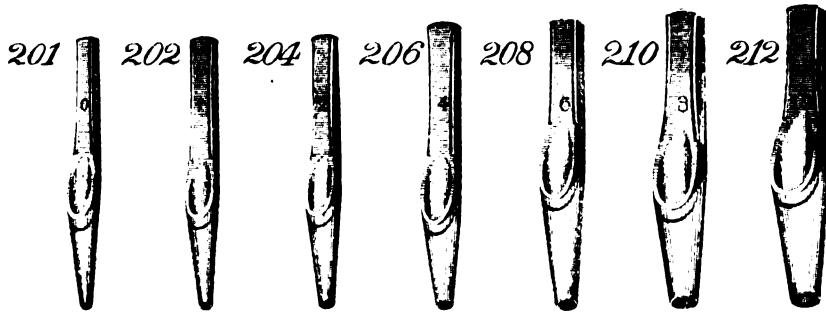
FARRIERS' PINCERS, &c.

	No.	7	8	9	10	11	12	13	14	in.
224	Best Farriers' Pincers.....	..	..	20/0	22/0	24/0	27/0	30/0	36/0	per doz.
225	Strong Broad Joint Farriers' Pincers .....	..	..	..	27/0	30/0	33/0	36/0	..	..
226	Common Farriers' Pincers.....	..	..	14/0	16/0	18/0	21/0	24/0	..	..
227	Bright Upholsterers' Chisels.....	8/0	8/6	10/0	12/0	14/0	16/0	..	..	..
228	Bright Claw Wrenches	7/0	8/6	10/0	12/0	14/0	16/0	..	..	..
229	Handled Claw Wrenches	12/6	..	..	..	..	..	..	..	..
230	Strong Black Claw Wrenches .....	..	..	..	10/0	12/0	14/0	..	..	..
231	Strong Brick Chisels .....	..	..	..	9/0	11/0	13/0	..	..	..

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

SHOE, SADDLERS, & HARNESS, PUNCHES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

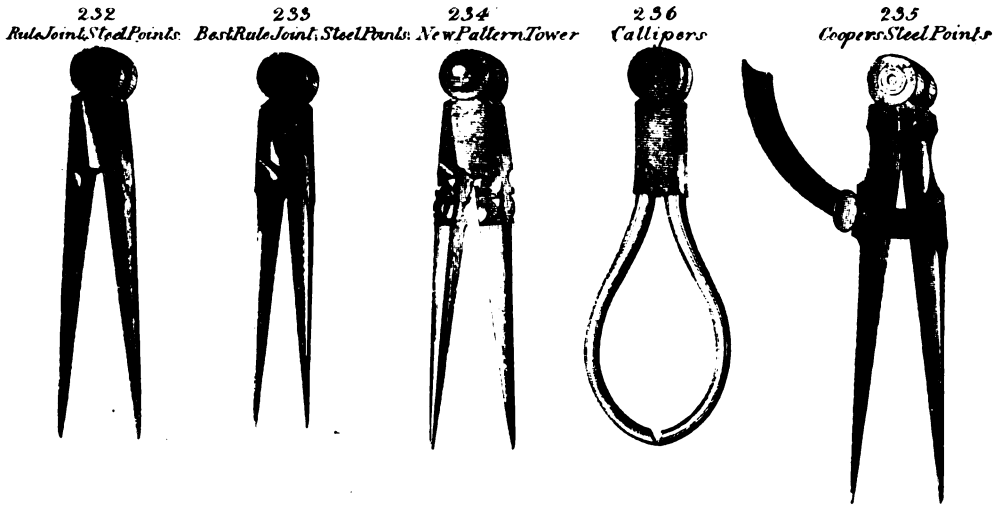
EDWARD BROOKES.

COMPASSES, PINKING IRONS, UPHOLSTERERS' PINCERS, &c.

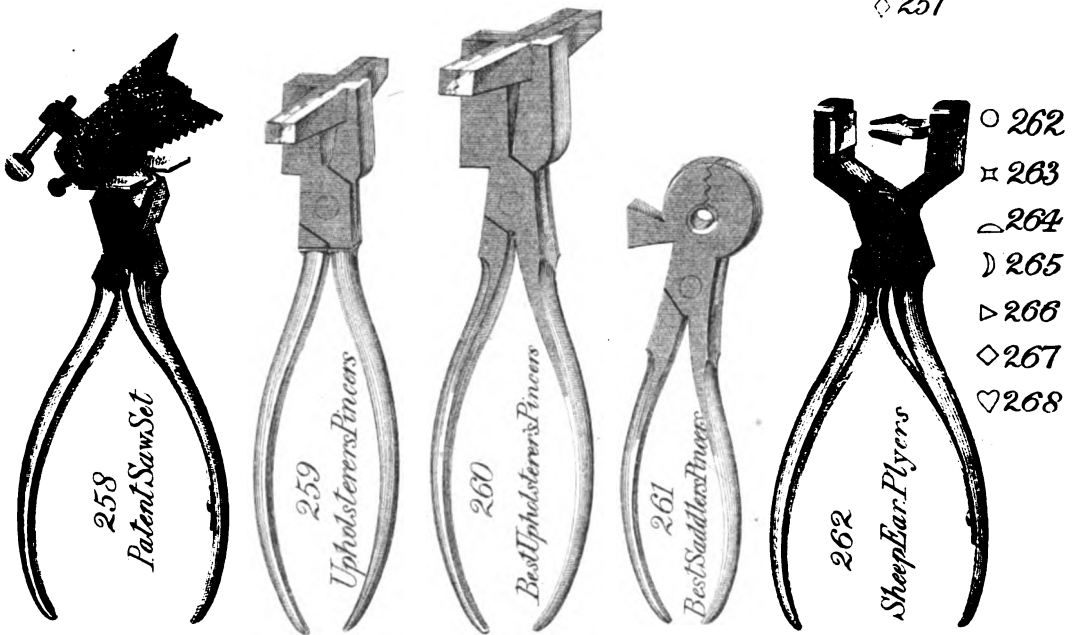
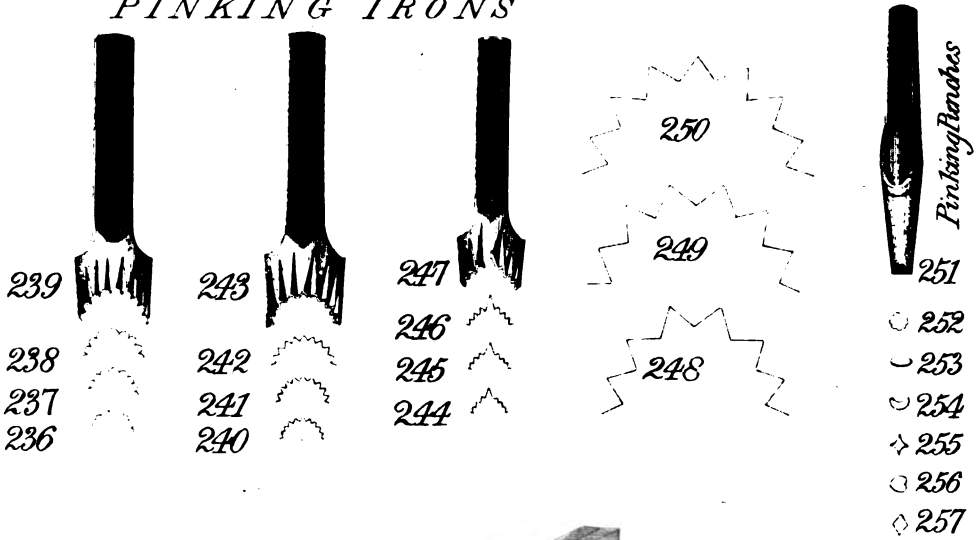
Dis- count.	No.		5	5½	6	6½	7	8	9	10	11	12	inch.				
	232	Rule Joint Compasses, Steel Points	3/9	4/3	4/9	5/6	6/6	8/6	10/6	12/6	15/0	17/8	doz.				
	233	Best " "	5/0	5/6	6/0	7/0	8/0	10/6	13/0	15/8	18/0	21/0	"				
	234	New Pattern Tower " "	9/6	9/6	9/6	10/6	11/0	13/0	15/0	17/6	20/0	24/0	"				
			5	6	7	8	9	10	11	12	13	14	inch.				
	235	Coopers' Compasses	15/0	15/0	17/0	20/0	23/0	26/0	29/0	32/0	35/0	38/0	doz.				
	236	Black Callipers	7/6	9/0	10/6	12/0	13/6	15/0	16/6	18/0	19/6	21/0	"				
	237	Bright " 	10/0	12/0	14/0	16/0	18/0	20/0	22/0	24/0	26/0	27/0	"				
			15	16	17	18	19	20	21	22	23	24	inch.				
	235	Coopers' Compasses	41/0	44/0	48/0	54/0	60/0	66/0	72/0	80/0	86/0	94/0	doz.				
	236	Black Callipers	22/6	24/0	25/6	27/0	28/6	30/0	31/6	33/0	34/6	36/0	"				
	237	Bright " 	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0	48/0	"				
		No. 236A 237A 238	239	240	241	242	243	244	245	246	247	248	249	250			
		Pinking Irons.. 8/6	9/0	9/6	10/0	8/6	9/0	9/6	10/0	8/6	9/0	9/6	10/0	12/0	14/0	16/0	doz.
			No. 251	252	253	254	255	256	257								
	251	Pinking Punches	10/0	10/0	10/0	10/0	10/0	10/0	10/0	10/0	10/0	10/0	per doz.				
	258	Patent Saw Sets, 30/0 per doz.															
							7	8	9	10	inches.						
	259	Upholsterers' Pincers					24/0	28/0	32/0	36/0	per doz.						
	260	Best " " .....					..	42/0	48/0	54/0	"					
							6½	7	7½	8	inches.						
	261	Best Saddlers' Pincers					20/0	24/0	28/0	32/0	per doz.						
			No. 262	263	264	265	266	267	268								
	262	Sheep Ear Pliers	3/6	4/0	4/0	4/0	4/0	4/0	4/0	4/0	each.						
						½	¾	1½	1	1½	inch.						
		Sheep Ear Pliers, No. 262			3/6	3/9	4/0	5/0	6/0	each.							
					½	1½	¾	1½	1	1½	¾	inch.					
		Sheep Ear Pliers, No. 263 to 268	4/0	4/0	4/6	4/9	5/9	6/9	7/9	each.							

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EDWARD BROOKES.



PINKING IRONS



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SHOE NIPPERS, SHOE PINCERS, &c.

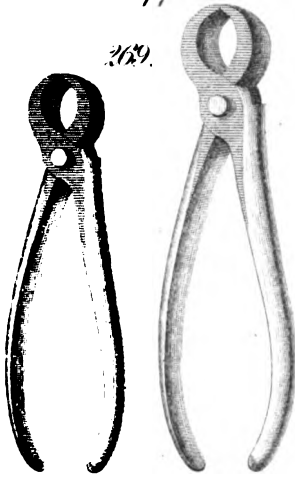
Dis- count.	No.		5½	6	6½	7	inches.					
	269	Bright Shoe Nippers	5/0	5/6	6/6	8/6	per doz.					
	270	Best Black "	6/0	6/6	7/6	9/0	"					
	271	Bright Box Joint Nippers	12/0	13/0	15/0	17/0	"					
	272	Shoe Nippers, with Hammers .....	..	6/0	7/6	9/6	"				
	273	Bright Box Joint Nippers, with Hammers.....	..	12/0	14/0	16/0	"					
			No. 274	275	276	277	278	279	280	280A		
			6½	7	7½	8	8½	9	9½	10	inches.	
	274	Shoe Pincers	10/6	10/6	12/0	13/0	14/0	16/0	18/0	20/0	per doz.	
						No. 281	282	283				
						7½	8	8½			inches.	
	281	French Shoe Pincers				16/0	17/0	18/0			per doz.	
						5½	6	6½	7		inches.	
	283A	Gentlemen's Bright Pincers				16/0	18/0	21/0	24/0		per doz.	
	284	Best Bright Shoe Punch Pliers, 20/0 per doz.; Punches only, 5/0 per doz.										
	284A	" " " with cutter, 25/0 per doz.										
	285	Sheep Ear Pliers, solid punch, 6/0 each.										
			7	7½	8	8½	9				inches.	
	286	Tinmen's Pliers	10/0	12/0	14/0	16/0	18/0				per doz.	
						8	10	12			teeth.	
	287	Carpet Strainers				25/6	28/0	30/0			per doz.	
	288	" bent socket .....				..	28/0	30/0			"
			14	16	18	19	20	21	22	23	24	inches.
	288A	Bright Steak Tongs	13/0	15/0	18/0	21/0	24/0	27/0	31/0	35/0	41/0	per doz.
	288B	" " with bar	16/0	18/0	21/0	24/0	27/0	30/0	34/0	38/0	44/0	"
	288C	Bright Flesh Forks	15/6	..	17/0	..	20/0	..	25/0	"

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

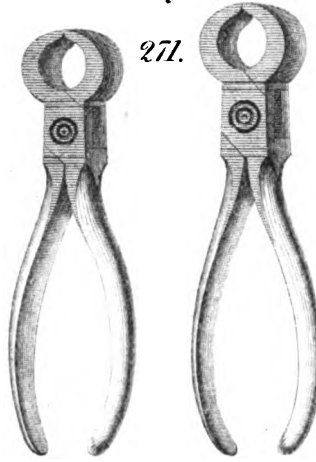
*Bright
Shoe Nippers.*

269.



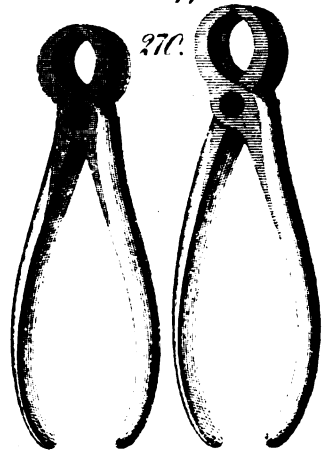
*Box Joint Shoe Nippers.
Bright.*

271.



*Best Black
Shoe Nippers.*

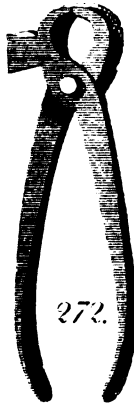
270.



*Shoe Nipper
with Hammer.*

*Box Joint
Shoe Nipper
with Hammer.*

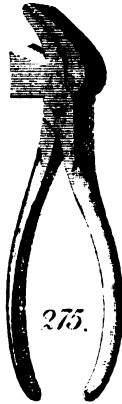
272.



273.



275.

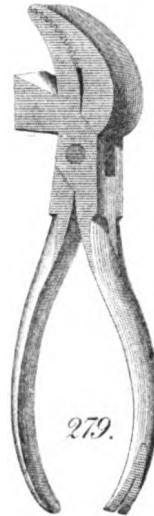


274.

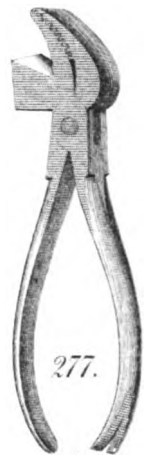


Shoe Pincers.

279.

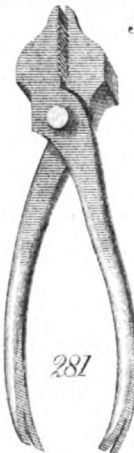


277.



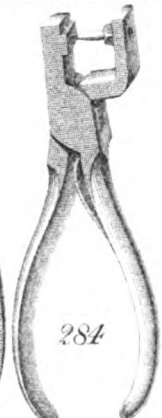
*French
Shoe Pincers.*

281



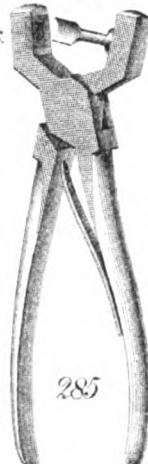
*Best Bright
Shoe Punch Pliers.*

284



Solid Punch.

285



*Tymmer's
Pliers.*

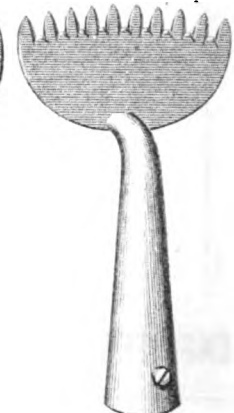
286



Carpet Strainers.

287.

288.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

BED KEYS, BUTTER TASTERS, CHEESE TASTERS, &c.

Dis- count.	No.															

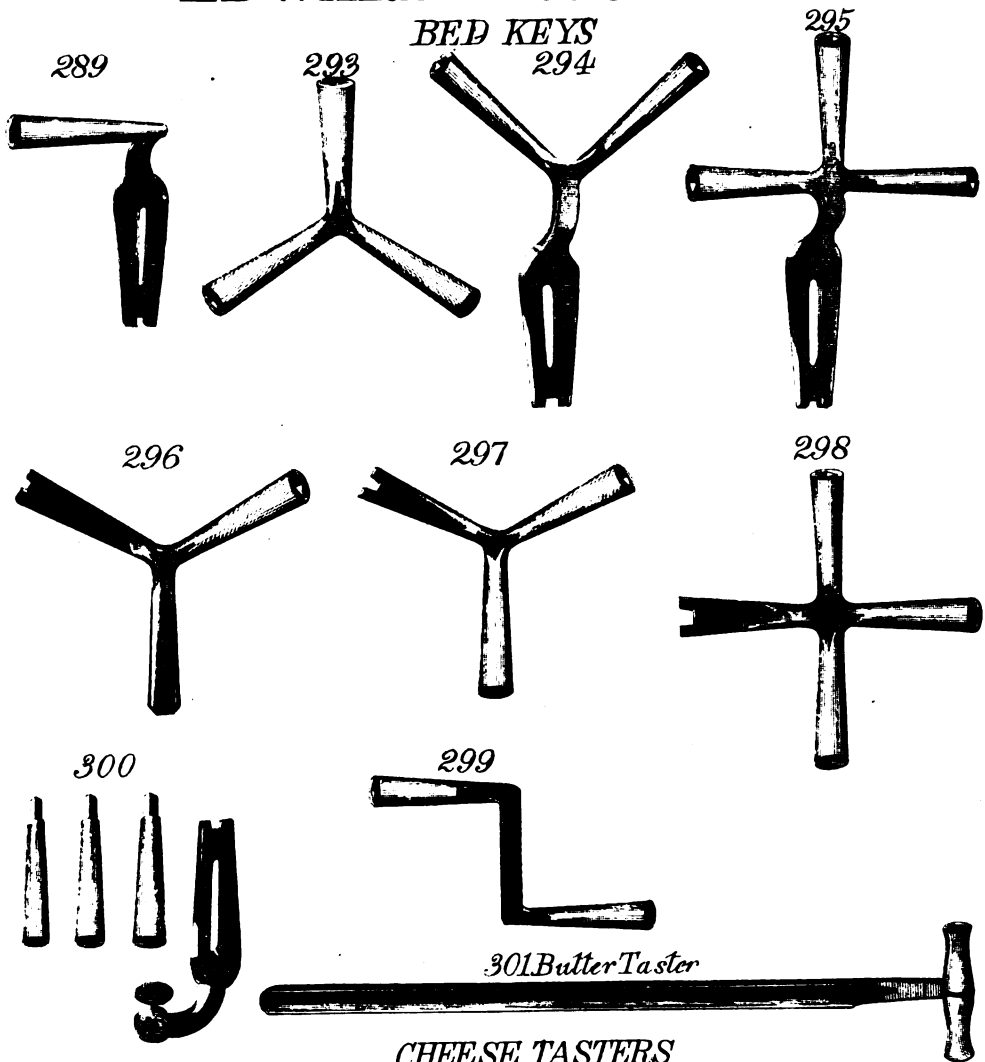
SUGAR NIPPERS.

									8	9	10	inches.
							Nos.	307	308	309		
	307	Bright Sugar Nippers	..	..	..	..	..	17/6	21/0	23/0	per doz.	
								Nos.	310	311		
		Best Polished Sugar Nippers	..	..	..	..	..	24/0	30/0	per doz.		
									Nos.	312		
	312	Best Polished Sugar Nippers, with Spring in Joint	..	..	..	..	..			36/0	per doz.	
	313	Bright Sugar Nippers, on Iron Stand, 6/6 each.										

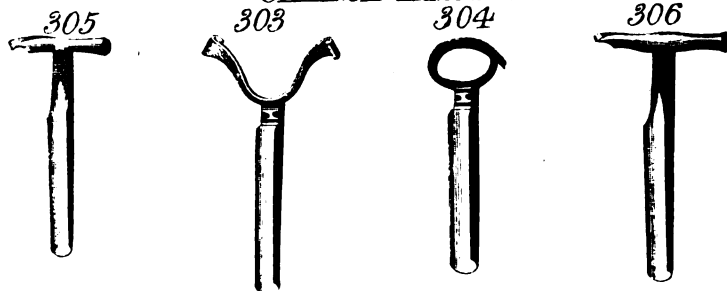
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

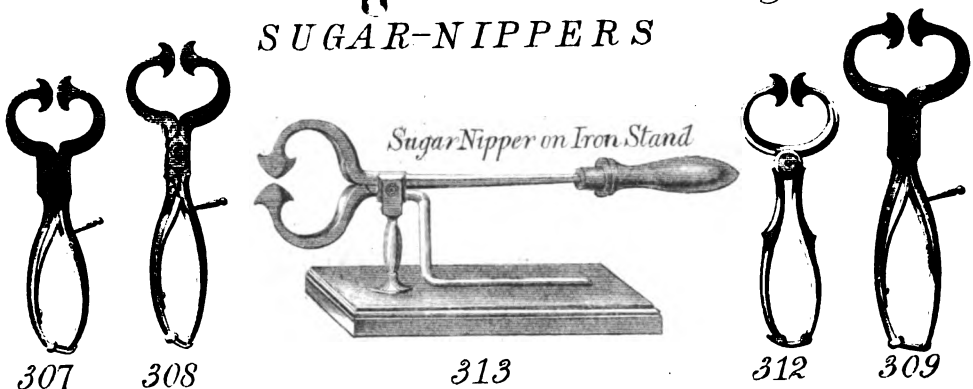
BED KEYS



CHEESE TASTERS



SUGAR-NIPPERS



THE ILLUSTRATED SHEFFIELD LIST.

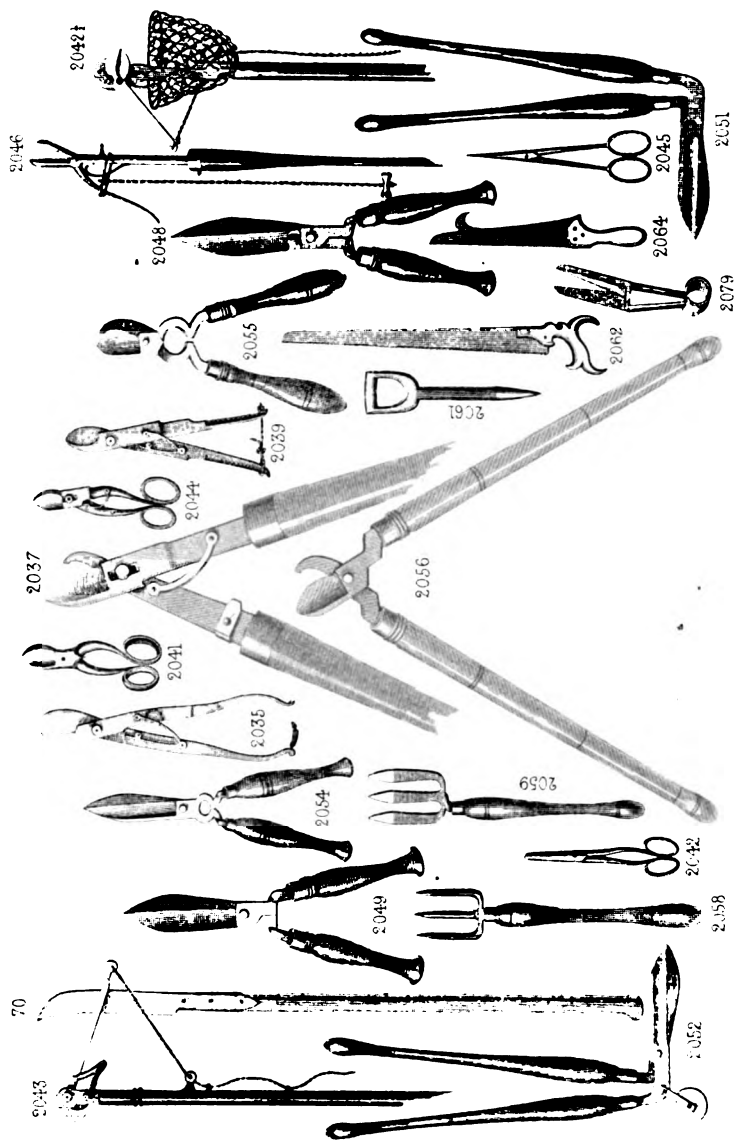
EDWARD BROOKES.

SLIDE PRUNING SHEARS, GARDEN SHEARS, &c.

Dis- count.	No.		8	9	10	11	inches.							
	2035	Hand Slide Pruning Shears, black	3/6	4/6	5/0	6/0	per pair.							
	2036	Ditto ditto bright	4/9	5/6	6/3	7/3	"							
	2037	Sliding ditto with long wood handles, black	5/0	6/0	8/0	11/0	"							
	2038	Ditto ditto ditto bright	6/6	8/6	11/0	13/6	"							
	2039	Ladies' Sliding Pruning Shears, bright, with cocoa handles, 6/6; ivory handles, 7/6 per pair.												
			8	9	10	11	inches.							
	2040	Wakefield Sliding Pruning Shears, bright.....	6/0	7/0	8/0	9/0	per pair.							
			5	5½	6	6½	7	8	inches.					
	2041	Pruning Scissors, with bows	24/0	25/6	28/0	32/6	37/6	46/0	per doz.					
	2042	Flower Gatherers	28/0	32/0	37/0	43/0	49/0	62/0	"					
	2042½	Fruit Gatherers, with handle, in two parts, 8 ft. long, 20/0 each.												
	2043	Avarancators ditto 6 ft. long, black, 20/0; bright, 30/0 each.												
				6	7	8	inches.							
	2044	Bow Slide Pruning Scissors		5/0	6/3	7/6	per pair.							
	2045	Vine Scissors		24/0	29/0	46/0	per doz.							
	2046	Grape Gatherers, with handle 4 ft. long. 9/0 per pair; if without handle, 7/9 per pair.												
			7½	8	8½	9	9½	10	10½	11	11½	12	12½	inches.
	2047	Garden Shears, with bright hoops	2/6	2/9	3/3	3/9	4/3	4/6	4/9	5/6	6/3	7/3	8/3	per pair.
	2048	Ditto with pruning notch	3/0	3/3	3/9	4/3	4/9	5/0	5/3	6/0	6/9	7/9	8/9	"
	2049	Ditto warranted	4/0	4/3	4/6	4/9	5/3	5/6	6/0	6/6	7/3	8/3	9/3	"
	2050	Ditto warranted, with pruning notch..	4/6	4/9	5/0	5/3	5/9	6/0	6/6	7/0	7/9	8/9	9/9	"
	2051	Grass or Border Shears	5/0	5/6	6/0	6/6	7/0	7/6	8/0					"
	2052	Ditto ditto with wheel	6/0	6/6	7/0	7/6	8/0	8/6	9/0					"
	2052½	Lawn Grass Shears	5/0	5/6	6/0	6/6	7/0	7/6	8/0					"
	2053	Ditto ditto with two wheels.....	7/0	7/6	8/0	8/6	9/0	9/6	10/0					"
				1st.	2nd.	3rd.	4th.	sizes.						
	2054	Ladies' Garden Shears		2/9	3/0			per pair.						
	2055	Ditto Pruning ditto with wood handles and brass hoops		4/8	5/6			"						
	2056	Branch or Lopping Shears ditto ditto		5/6	6/6	7/6	9/0	"						
				2	2½	2½	2½	3	inches.					
	2057	Socket Pruning Chisels	18/8	21/3	25/3	32/3	38/9	per doz.						
	2057A	Ditto ditto with one hook, 17/9 per doz. extra; with two hooks, 23/3 per doz. extra.												
	2058	Black Weeding Fork, with handle 15 in. long												
	2059	Ladies' Blued Flower Fork ditto												
	2060	Ditto ditto with short handle												
	2061	Garden Dibblers, with crutch or open handle												
			14	16	18	20	22	24	inches.					
	2062	Pruning Saws, German steel	28/0	35/0	40/0	45/0	49/0	55/0	per doz.					
	2063	Ditto cast steel	32/0	40/0	45/0	50/0	55/0	63/0	"					
	2064	Improved Pruning Saws, with bill hook, 5/6 each.												
				No. 70	80	90								
	2065	Improved Dunse Switching Bills.....		36/0	40/0	44/0	per doz.							
			No. 0	1	2	3	4	5	6					
	2064A	Bright Garden Hammers, with chequered faces	10/0	12/0	14/0	16/0	18/0			doz.				
	2065	Best Scotch Garden ditto ditto		18/0	20/0	22/0	24/0			"				
	2065A	Black Helved Hatchets	14/9	15/3	16/6	18/3	20/6	23/0	26/0	"				
	2066	Best Steel Polled ditto	21/3	21/9	23/0	24/9	30/0	33/0	35/3	"				
			2	3	4	5	6	7	8	9	10	in.		
	2067	Garden Hoes	5/0	5/0	6/0	7/0	8/0	9/0	10/0	11/0	12/0	doz.		
	2068	Ditto cast steel, solid, or patent rivetted	5/0	5/6	6/6	7/6	9/0	10/0	11/6	12/6	14/6	"		
	2069	Half Moon ditto	5/0	5/6	6/6	7/6	9/0	10/0	11/6	12/6	14/6	"		
	2070	Dutch Hoes			10/0	11/6	13/0	14/0	15/0	16/0	17/0	"		
	2071	Ditto cast steel.....			10/0	12/0	13/6	15/0	16/0	17/0	18/0	19/0	"	
	2072	Triangle Hoes				10/0	12/6	14/6	16/6	19/0	22/0	26/0	"	
	2075	Prussian ditto				14/6	16/6	18/6	20/0				"	
		Garden Hoes, with long necks, 6d. per doz. extra.												
				3	3½	4	4½	inches.						
	2072A	Grubbing or Potato Hoes.....		23/3	25/0	26/9	28/6	per doz.						

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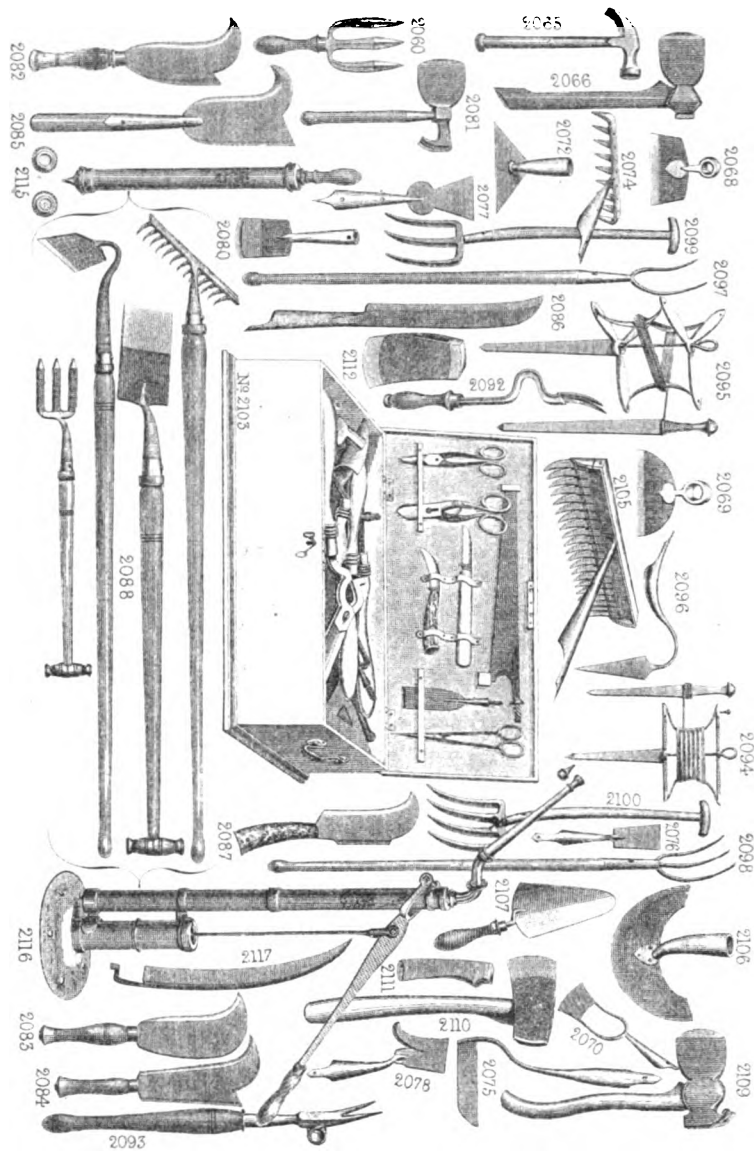
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HORTICULTURAL TOOLS.—Continued.

No.		GARDEN RAKES, SPUDS, HORTICULTURAL HAMMERS, &c.																	
		4 5 6 7 8 9 10 11 12 13 14 15 16 18 teeth.																	
2073	Garden Rakes, bolstered teeth ..	6/0	6/6	7/0	8/0	9/0	10/0	11/0	12/0	13/6	16/0	18/0	19/6	21/0	24/6	doz.			
2074	Best Garden Rakes, with solid ends	6/0	6/6	7/0	8/0	9/0	10/0	11/0	12/0	13/6	16/0	18/0	19/6	21/0	24/6	..			
												1	1½	2	2½	inches.			
2076	Black Garden Spuds											6/0	6/0	6/6	7/0	per doz.			
2077	Bright Scotch Thistle Spuds.....											10/6	10/6	10/6	..				
2078	Blued Spuds and Weed Hooks											10/6	10/6	10/6	..				
2078A	Ditto ditto on handle 15 in. long											14/6	14/6	14/6	..				
2078B	Ditto ditto on strong walking sticks .....											..	..	20/0	..				
2079	Spring Grass Shears, 24/0 per doz.																		
2080	Botanical Spuds, 10/6 per doz.; ditto, handled, 14/6 per doz.																		
2081	Improved Horticultural or Loudon's Hatchets, 5/0 each.																		
		No. 1 2 3 4																	
2081A	Horticultural Hammers.....	27/0 30/0 per doz.																	
2082	Glasgow Bills, black	21/0 23/0 25/0 28/0 ..																	
2082A	Ditto bright.....	27/0 29/0 31/6 34/0 ..																	
2083	Kent Bills, black.....	21/9 22/9 23/9 26/0 ..																	
2083A	Norfolk and Suffolk Bills, tanged, handled	24/0 25/0 26/6 28/0 ..																	
2083B	Ditto ditto socket.....	24/0 25/0 26/6 28/0 ..																	
2083C	Ditto ditto handled	25/6 26/6 28/0 29/0 ..																	
2084	Westmoreland Bills, black	24/0 25/0 26/6 28/0 ..																	
2084A	Ditto ditto bright	27/0 28/0 29/6 31/0 ..																	
2084B	Nottinghamshire Tanged Bills, handled	26/6 29/6 32/6 35/6 ..																	
2085	Strapped Yorkshire Bills, handled	40/0 42/6 46/6 51/0 ..																	
2085A	Socket ditto	28/6 31/0 34/0 37/0 ..																	
2085B	Ditto ditto handled	30/6 33/0 36/0 39/0 ..																	
2086	Ditto Switch Hooks, 12 in.	28/0																	
2087	Milton Hatchet, bright, stag handle	7/6 8/0 9/0 .. each.																	
2087A	Gentleman's Hammer and Claw Bill	24/0 27/0 .. per doz.																	
2088	Sets of Ladies' Garden Tools, consisting of Garden Spade, Garden Rake, and Hoe, 3/7 per set.																		
		No. 2 3 4																	
2089	Sets of Garden Tools, consisting of Garden Spade, Garden Rake, Hoe, and Fork	6/6 7/10 10/9 per set.																	
2092	Daisy Grubs, 12/0 per doz.																		
2093	Improved ditto, with handle 15 in. long, 30/0 per doz.																		
2093A	Dock Grub, with double tread, 36/0 per doz.																		
		6 7 8 9 10 inches.																	
2094	Garden Reel and Stake	15/0 18/0 22/0 27/0 33/0 per doz.																	
2095	Triangle ditto .....	.. .. 30/0 ..																	
		No. 1 2 3																	
2096	Vernon Hoes	30/0 35/0 40/0 per doz.																	
		No. 0 1 2 3 4																	
		Length of Shafts. 4ft. 0in. 4ft. 6in. 4ft. 6in. 4ft. 6in. 4ft. 6in.																	
2097	Steel Hay Forks, round prongs, bright.....	27/0 30/0 33/0 36/0 40/0 per doz.																	
2097A	Ditto ditto oval prongs	30/0 33/0 36/0 39/0 43/0 ..																	
2098	Ditto ditto round, three prongs	42/0 45/0 48/0 51/0 ..																	
2098A	Ditto ditto oval ditto	45/0 48/0 51/0 54/0 ..																	
		5 5½ 6 6½ 7 8 feet.																	
		Extra, for long shafts..... 2/0 3/0 4/0 6/0 8/0 12/0 per doz.																	
		3 4 5 6 7 prongs.																	
2099	Elastic Cast Steel Manure and Digging Forks	60/0 72/0 84/0 120/0 150/0 per doz.																	
		Ditto, if Strapped, 4/ per doz. extra.																	
2101	Horticultural Tool Chests, containing Garden and Dutch Hoes, Garden Rake, Spud, Weeding Hook, Garden Reel, Garden Hammer, Pruning Saw, and Garden Trowel. All the tools requiring it are made to screw into a socket attached to a hardwood handle, 3 ft. 4 in. long. 28/0 each.																		
2102	Horticultural Tool Chest, containing Garden Hoe, Dutch Hoe, Triangular Hoe, Spud, Weeding Hook, Garden Rake, Garden Shears, Pruning Shears, Pruning Scissors, Flower Gatherer, Vine Scissors, Pruning Saw, Garden Trowel, Garden Hammer, Garden Reel, Pruning Knife, with stag handle; Budding Knife, with ivory handle. All the tools requiring it are made to screw into a socket attached to a hardwood handle, 3 ft. 4 in. long. 48/0 each.																		

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HORTICULTURAL TOOLS.—Continued.

HORTICULTURAL TOOL CHESTS, SCYTHES, &c.

No.	HORTICULTURAL TOOL CHESTS, SCYTHES, &c.											
2108	Horticultural Tool Chests, containing Garden Hoe, Dutch Hoe, Triangular Hoe, Spud, Weeding Hook, Garden Rake, Garden Shears, Improved Slide Pruning Shears, Sliding Pruning Scissors, Flower Gatherer, Vine Scissors, Pruning Saw, Cast Steel Blued Garden Trowel, Garden Hammer, Garden Beel, Pruning Knife, with stag handle; Budding Knife, with ivory handle. All the tools requiring it are made to screw into a socket attached to a hardwood handle, 8 ft. 4 in. long. 60/0 each.											
2104	Horticultural Tool Chest, containing Garden Hoe, Dutch Hoe, Triangular Hoe, Spud, Weeding Hook, Garden Rake, Garden Shears, Improved Slide Pruning Shears, Sliding Pruning Scissors, Flower Gatherer, Vine Scissors, Pruning Saw, Cast Steel Blued Garden Trowel, Garden Hammer, Garden Beel, Garden Spade, with jointed handle; Pruning Knife, with stag handle; Budding Knife, with ivory handle. All the tools requiring it are made to screw into a socket attached to a hardwood handle, 8 ft. 4 in. long. 68/0 each.											
2104A	Sets of Ladies' Garden Tools, consisting of Garden Hoe, Dutch Hoe, Garden Rake, and Weeding Hook, all made to screw into one socket attached to a hardwood handle, 18/0 per set.											
2105	Lawn or Grass Rakes	.....	16	18	20	22	24	26	teeth.			
			5/9	6/6	7/0	7/6	8/0	8/6	each.			
2106	Grass Plot Edging Knives, cast steel	.....	5	5½	6	6½	7	8	9	10	11	12 inches.
2107	Black Garden Trowels, polished handles	....	7/0	7/0	7/0	7/6	8/6	10/0	..	..	..	doz.
2107A	Cast Steel Blued	ditto ditto	12/0	12/0	12/0	13/0	14/0	15/0	..	..	..	"
2108	Ditto	ditto flat ditto	12/0	12/0	12/0	13/0	14/0	15/0	..	..	..	"
2109	Gentlemen's Claw Hatchets	.....	No.			1	2	3				
2110	Canada Hatchets, blued.....		27/6			40/0	42/6	per doz.				
			32/9			34/6	37/0	..				
2111	Best Felling Axes, 10½d. per lb.											
2112	Electro Boracic Canada Wedge Axes, 1/6 per lb. above 8 lb.; (if handled, 24/6 per doz. extra gross.)											
2113	Ladies' Brass Garden Syringes, with three loose grates	.....	7/6 each.									
2114	Full size	ditto ditto	11/6 ..									
2115	Reed's Pattern or Ball Valves	ditto	16/0 ..									
2115A	Knuckle Joint	ditto ditto	25/0 ..									
2116	Brass Garden Engines	.....	60/0 ..									

PATENT SCYTHES, FOR ENGLAND, IRELAND, SCOTLAND, WALES, AND AMERICAN GRAIN.

	30	32	34	36	38	40	42	44	46 inches.
2117 Patent Scythes	34/0	34/0	34/0	35/0	36/0	37/6	39/0	40/6	42/0 per doz.
2118 Crown ditto	35/6	35/6	35/6	36/0	37/6	39/0	40/6	42/0	43/6 ..
2119 Extra Warranted	40/0	40/0	40/0	41/0	42/0	43/0	44/0	45/6	47/6 ..
	48	50	52	54	56	58	60	62	64 inches.
2117 Patent Scythes	48/6	48/0	48/6	48/0	49/6	51/0	52/6	54/0	57/0 per doz.
2118 Crown ditto	45/6	49/0	52/6	55/6	58/6	62/0	65/0	68/0	73/0 ..
2119 Extra Warranted	50/0	52/6	55/0	58/0	61/0	64/0	67/0	70/0	74/0 ..

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PLATERS' AND TINMEN'S SHEARS.

Dis- count.	No.		7	8	9	10	11	12	13	14	inches.
	313A	Platers' Hand Shears.....	18/0	19/0	20/0	24/0	28/0	32/0	36/0	40/0	dozen.
	313B	Ditto ditto bent blade	28/0	28/0	30/0	33/0	36/0	42/0	..	..	..
	313C	Lancashire Hand Shears	22/6	26/0	33/0	40/0	50/0	60/0	70/0	80/0	..
	313D	Goldsmiths' Shears	11/0	14/0	18/0	22/0	26/0	30/0	34/0	38/0	..
	313E	Bookbinders' Bench Shears.....	1/3 per lb.								
	313F	Tinmen's Stock or Braziers' Shears	1/2 ..								
			24	26	28	30	inches on the cut.				
	313G	Card or Pasteboard Shears	60/0	66/0	73/0	80/0	per pair.				
			8	9	10	11	12	13	14	inches.	
	313H	Brushmakers' Shears.....	12/0	14/0	16/0	18/0	20/0	22/0	24/0	per pair.	
	313I	Brushmakers' Bench Shears .....	..	..	20/0	23/0	27/0	..	..	..
	313K	Brazil Tinmen's Shears	4/6	5/6	6/6	7/6	8/6	9/6	10/6	..	
			12	13	14	15	16	17	inches.		
	313L	Scotch Hand Shears	7/6	8/0	8/6	9/0	9/6	10/6	each.		
			9	9½	10	10½	inches.				
	313M	Trasquilar or Mule Shears	8/0	9/6	12/0	15/0	per dozen.				
	313N	Spanish Shears	8/0	9/6	12/0	15/0	..				

TIMBER SCRIBES.

313P With Box Handle, 30/0; Beech Handle, 21/0; without Handles, 16/6 per dozen.

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THE ILLUSTRATED SHEFFIELD LIST.

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SCREW JACKS, RIGGING SCREWS, JOINERS' CRAMPS, &c.

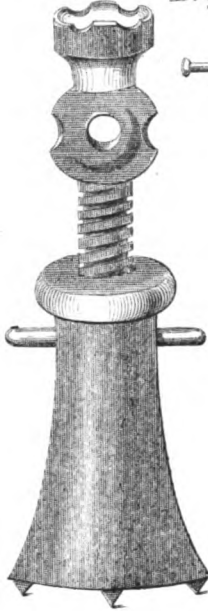
Dis- count.	No.	Height with Screw down... To Lift..	9 1½	12 2	15 3	18 4	21 5	24 6	27 8	30 10	33 12	36 14	42 16	44 18	in. tons.				
	551	Bottle Screw Jack.....	28/0	33/0	40/0	50/0	60/0	75/0	95/0	115/0	140/0	160/0	180/0	200/0	each.				
		Height with Screw down	9	12	15	18	21	24	27	30	33	36	42	44	in.				
		To Lift..	1½	2	3	4	5	6	8	10	12	14	16	18	tons.				
	552	Tripod Screw Jack, with brass bush	34/0	36/0	45/0	56/0	66/0	85/0	105/0	130/0	155/0	175/0	200/0	225/0	ea.				
							8	10	12	14	16	18	20		inches.				
	553	Bright Rigging Screws.....					12/0	14/9	18/6	21/6	24/6	29/6	35/0		each.				
	554	Common ditto .....					..	..	15/0	17/0	19/0	21/6	24/0		..
							3	4	5	6	7	8			feet.				
	554A	Joiners' Cramps					22/0	27/0	32/0	37/6	42/0	46/0			each.				
	555	Ditto					30/0	32/0	35/0	42/0	50/0	60/0			..				
	555A	Ship Cramps, 0 9 per lb. Lengthening Bars to No. 554A, 3/6 per foot; ditto to No. 555, 4/6 per foot.					18	20	22	24	27	30			inches.				
	556	Sash Cramps					13/6	16/6	20/0	22/0	25/0	28/0			per pair.				
	556A	Floor Cramps, 11/0 each.																	
	557	Joiners' Holdfasts, 60/0 per dozen.					8	9	10	11	12	13			inches, and upwards.				
	558	Black Marline Spikes per dozen ..	8/0	8/6	9/3	10/6	11/6							56/0	per cwt.				
	559	Bright ditto ditto ..	9/9	10/6	11/6	13/0	14/6							72/0	..				
	560	Ditto ditto with Hammer ..	12/0	12/6	13/6	14/6	15/6							98/0	..				
	561	Ship Carpenters' Pin Mauls, 0/9 per lb.																	
		CAULKING IRONS.																	
	562	Spike Irons.....	9/6												per dozen.				
	563	Making Irons.....	9/6												..				
	564	Sharp Irons	9/6												..				
	565	Single Crease Irons 11/0													..				
	566	Double Crease Irons 12/0													..				
	567	Trunnel Irons 10/0													..				
	567A	Caulking Irons, in Sets of 4, 8/8 per set.													..				
	567B	Ditto ditto 6, 5/6													..				
		CAST STEEL SHIP SCRAPERS.																	
	568	Ship Scrapers, with tang rivetted								4½	5	5½			inches.				
	568A	Ditto with socket rivetted								9/0	9/6	10/0			per doz.				
	569	Ditto with nut and screw								9/6	10/6	11/0			..				
	570	Ditto iron handle and screw.....								11/0	11/6	12/0			..				
	570A	Ditto								12/0	12/6	13/0			..				
		Single Leaf Ship Scrapers, 14/0 per dozen.																	
	571	Strong Tinned Flesh Forks	18	20	22	24	26	28							inches.				
	572	Ditto ditto with hooks	5/0	5/3	5/9	7/0	10/6	13/6							per doz.				
	572A	Extra Strong Tinned 3-prong Forks.....	6/3	6/6	7/6	10/0	12/6	14/6							..				
	572B	Ditto 3-prong Tormentors	11/0	12/0	13/6	16/6	19/6	23/0							..				
			12/6	13/6	15/0	18/0	21/0	25/0							..				
			3	3½	4	4½	5	5½	6	7	8				inches.				
	573	Extra Strong Tinned Cooks' Ladles ..	7/6	7/9	8/9	9/9	10/9	11/9	14/6						per doz.				
	574	Ditto ditto with flat front ..	10/6	12/0	13/6	15/0	17/0	21/0							..				
	574A	Ditto ditto Deep Skimmer..	..	..	7/0	7/6	7/10	8/3	8/9						..		
	574B	Ditto ditto Flat ditto ..	4/0	4/8	5/8	5/6	5/10	6/3	6/9	8/0	10/0				..				
	574C	Pitch or Lead Ladle	7/6	9/0	11/6	13/6	15/6	19/0	22/6	34/0	45/0				..				
	574D	Ditto ditto with front spout..	9/9	11/3	12/9	15/0	17/0	21/0	24/0	30/0					..				
		No. 00 0 1 2 3 4 5 6 7 8 9 10 11 12 13																	
	575	Connecting Shackles	2/9	3/0	3/3	3/6	4/0	4/6	5/0	5/6	6/3	7/0	8/0	9/0	11/6	14/6	18/0	dozen.	
	576	Improved Wrought Iron ..	½	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	inches.	
		Connecting Links	2/0	2/3	2/9	3/3	4/0	5/0	6/0	8/0	10/6	15/0	19/0	24/9	28/0	31/6	34/9	40/0	dozen.
			½	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	⅞	¾	1	inch.
	576A	Improved Split Connecting Links	2/3	2/6	3/0	3/6	4/3	5/3	6/3	8/6	11/6	16/6	20/0					dozen.	
	577	Black Screw Shackles.....	..	4/0	4/4	5/4	6/4	7/6	9/3	11/6								..	
	577A	Ditto with forelocks	5/3	5/10	6/8	8/0	9/6	11/0	13/6								Larger sizes, 50/0 per cwt.	
	577B	Ditto ditto	5/3	5/10	6/8	8/0	9/6	11/0	13/6								Larger sizes, 56/0 per cwt.	
	577	Ditto Screw Shackles.....	..	4/0	4/6	5/6	6/6	7/6	9/6	11/6								Larger sizes, 56/0 per cwt.	
																		Larger sizes, 50/0 per cwt.	

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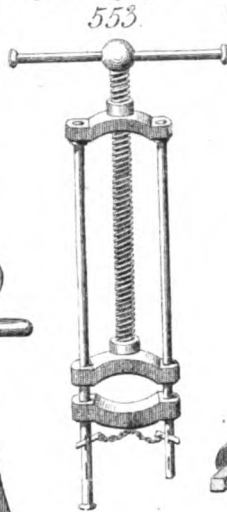
Bottle Screw Jack

551



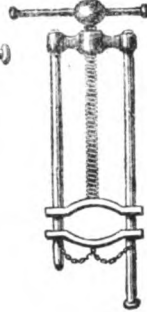
Bright Rigging Screw

553



Rigging Screw Joiners Holdfast

554



557



Tripod Screw Jack

552



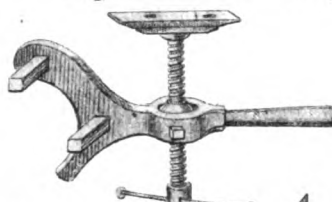
575 Connecting Shackle

Improved Connecting Link

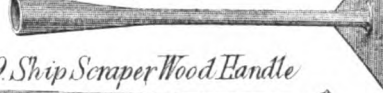
576

Nº 556A

Improved Floor Cramp



570 Ship Scraper Iron Handle



569 Ship Scraper Wood Handle



576A Improved Shape Connecting Link



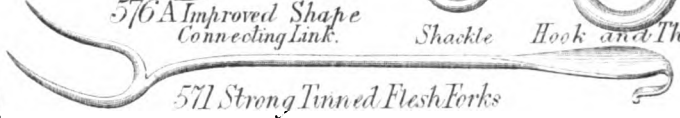
Shackle



Hook and Thimble



571 Strong Tinned Flesh Forks



CAULKING IRONS

566



565



563



562

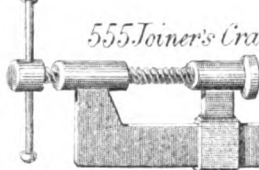


559 Bright Martine Spike



561 Ship Carpenters Pin Mallet

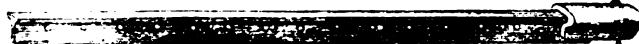
555 Joiners Cramp



556 Sash Cramp



554A



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis- count.	No. .	No. 000 00 0 1 2 3 4 5 6 7 8 9																	
578		Tackle Hook & Thimbles, black .. 2/6 2/6 3/6 4/0 4/6 5/6 per doz. 42/0 42/0 41/0 41/0 41/0 41/0 cwt.																	
578A		Ditto ditto galvanized 3/6 3/6 4/6 5/6 6/6 7/6 .. 56/0 56/0 54/0 54/0 54/0 54/0 ..																	
579		Clip Hooks & Thimbles, black .. 6/0 6/0 7/0 8/0 9/6 11/0 .. 50/0 50/0 49/0 49/0 49/0 49/0 ..																	
579A		Ditto ditto galvanized 7/6 7/6 8/0 9/0 11/0 13/6 .. 61/0 61/0 60/0 60/0 60/0 60/0 ..																	
580		Black Top Sail Sheet Shackles :—																	
						$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	inch Iron.						
		Jointed					1/0	1/0	1/0	1/0	0/11	0/11	per lb.						
		Galvanized ditto					1/2	1/2	1/2	1/2	1/1	1/1	..						
580A		Black Top Sail Sheet Shackles, not jointed					0/10	0/10	0/10	0/10	0/9	0/9	..						
		Galvanized ditto ditto					1/0	1/0	1/0	1/0	0/11	0/11	..						
						$1\frac{1}{2}$	2	$2\frac{1}{2}$	lbs. 3 lbs. each and upwards.										
581		Spectacle Clews, galvanized					21/0	24/0	27/0	per doz.		Galvanized	84/0	per cwt.					
581A		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581C		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581E		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581G		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581J		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581L		Ditto ditto					21/0	24/0	27/0	..		Ditto	84/0	..					
581N		Clew Rings, galvanized					21/0	24/0	27/0	..		Ditto	84/0	..					
						1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{1}{2}$	4	inch.	
582		Welded Sail Thimbles, black .. 7/6 7/6 8/6 10/0 12/0 14/0 17/6 21/6 25/6 29/6 34/0 38/0 42/0 gross.																	
582A		Ditto ditto galvanized 9/0 9/0 10/6 13/0 15/6 18/6 22/6 27/0 32/0 37/0 44/0 50/0 60/0 ..																	
						1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{1}{2}$	4	inch.
583		Open Sail Thimbles, black 6/6 6/6 7/6 8/6 10/0 12/0 15/0 19/0 23/0 27/0 31/0 35/0 39/0 gross.																	
583A		Ditto ditto galvanized 7/6 7/6 8/6 11/6 13/6 17/0 20/0 25/0 29/6 35/0 40/0 45/0 51/0 ..																	
						2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	3	inches.				
583C		Lip or Saddle Thimbles, black 33/6 38/6 44/0 48/6 57/6 per gross.																	
583D		Ditto ditto galvanized 43/9 48/0 52/9 64/0 77/0 ..																	
583E		Clew Thimbles, extra wide in score, 2 inches to $4\frac{1}{2}$ inches, black, 60/0; galvanized, 74/6 per cwt.																	
						1 by 1	$1\frac{1}{2}$ by $1\frac{1}{2}$	$1\frac{1}{2}$ by $1\frac{1}{2}$	$1\frac{1}{2}$ by $1\frac{1}{2}$	$1\frac{1}{2}$ by $1\frac{1}{2}$	2 by 2	inches.							
583F		Double Thimbles, black					16/0	16/0	17/6	19/6	24/6	per gross.							
583G		Ditto galvanized					17/0	18/0	21/0	24/0	31/6	per gross.							
		Larger sizes, 60/0 per cwt.																	
		Larger sizes, 73/0 ..																	
583H		Lanyard Thimbles, up to $2\frac{1}{2}$ inch., 18/0; $2\frac{1}{2}$ inch., 19/6 per gross; 3 inch. and upwards, black, 48/0 per cwt.																	
		Ditto galvanized, $2\frac{1}{2}$ inch., 23/9; $2\frac{1}{2}$ inch., 25/6 per gross; 3 inch. and upwards, 63/0 per cwt.																	
						To $1\frac{1}{2}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$ inches and upwards, 48/0 per cwt.										
583J		Heart-shaped Thimbles, black					15/6	16/6	18/0	per gross.									
		Ditto ditto galvanized ..					18/0	21/0	24/0	.. $2\frac{1}{2}$ inches and upwards, 63/0 ..									
						2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	inches.									
583K		Taper Thimbles, for Wire Ropes, black					14/6	16/0	18/0	21/0	per gross.								
		Ditto ditto galvanized					16/6	19/9	22/0	25/0	..								

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

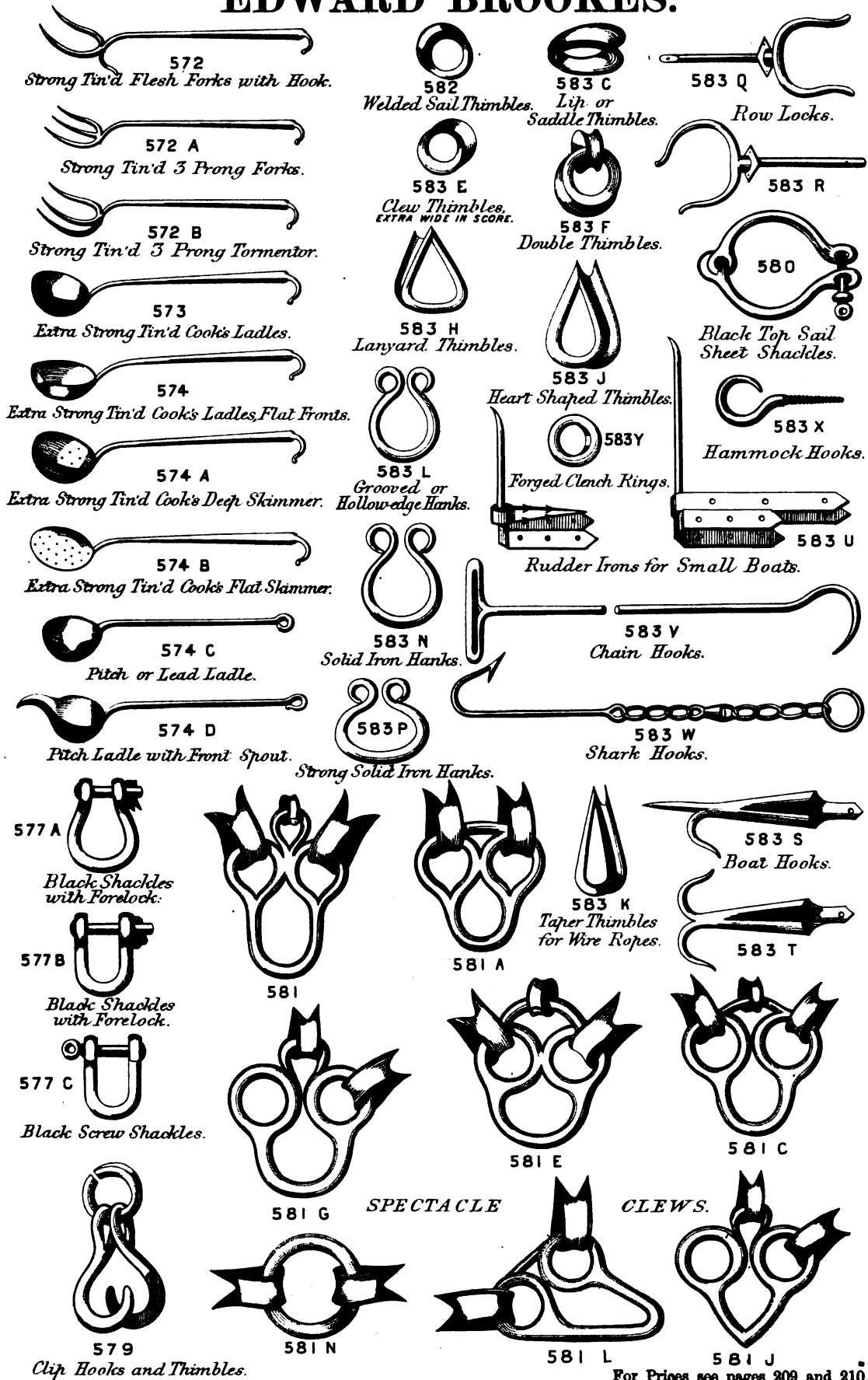
Dis- count.	No.	Up to	2	2½	2½	2½	3 inches and upwards, 81/0 per cwt.
	583L	Galvanized Hollow Edged Hanks.....	21/0	24/0	27/0	30/0	per gross.
	583N	Solid Iron Hanks, galvanized	21/0	24/0	27/0		3 inches and upwards, 56/0 per cwt. per gross.
	583P	Strong Solid Iron Hanks, galvanized	21/0	24/0	27/0		3 inches and upwards, 56/0 per cwt. per gross.
	583Q	Rowlocks, black		2½	3	3½	3½ 4 inches.
		Ditto galvanized	11/6	14/3	17/3	21/4	25/6 per doz.
	583R	Ditto black	13/9	17/6	20/6	25/0	30/0 "
		Ditto galvanized	11/6	14/3	17/3	21/4	25/6 "
		Ditto galvanized	13/9	17/6	20/6	25/0	30/0 "
			No. 1	2	3	4	5
	583S	Boat Hooks, black	8/6	9/3	10/0	11/0	12/6 per doz.
		Ditto galvanized	10/0	10/9	12/0	13/0	15/6 "
	583T	Ditto black	10/0	10/6	11/0	12/6	13/3 "
		Ditto galvanized	10/9	12/3	13/3	15/6	17/0 "
	583U	Rudder Irons, for small boats, 14/0, 15/3, 18/6, 20/0 per set.					
	583V	Chain Hooks, 32/0 per cwt.					
	583W	Shank Hooks, large, 18/0; middle, 16/6; small, 15/6 per doz.					
	583X	Hammock Hooks, black.....	8½	4	4½	5	5½ 6 6½ inches.
		Ditto ditto galvanized	1/8	1/11	2/1	2/4	2/6 3/4 4/2 per doz.
		Ditto ditto galvanized	1/11	2/1	2/6	2/11	3/4 4/2 5/0 "
	583Y	Forged Clench Rings	½	¾	¾	1	1½ 1½ 1½ 1½ inch.
		Ditto	67/6	65/6	64/0	62/6	61/0 59/6 59/6 57/6 per cwt.
		Ditto ditto galvanized	82/0	79/0	77/0	75/0	73/0 71/0 71/0 70/0 70/0 "

FISH GRAINS.

	3	4	5	6	7 inches.
Bright and Improved Fish Grains	48/0	53/0	57/9	62/6	67/6 per doz.
Black ditto ditto	38/9	42/9	48/0	52/9	58/0 "
	18	21	24	30 inches.	
Solid Harpoons	39/6	48/9	58/6	58/6	per doz.
Winged ditto	58/6	64/0	68/6	74/0	"
Moveable Heads, with rings	64/0	68/0	74/0	80/0	"
	4	5	6	7	8 9 inches.
Sail Prickers	6/0	7/0	8/0	9/6	11/0 13/6 per doz.
	4	5	6	7 prongs.	
Eel Spears	27/6	34/0	40/0	46/0	per doz.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



For Prices see pages 209 and 210.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

WIRE ROPE SHOES.

Dis- count.	No.		Circumference of Rope					inches.
			Total Length					
			2	2½	3	3½	4	
			8	9	11	13	15	..
		Light Wire Rope Shoes, self-colour	22/0	23/6	25/0	26/6	28/0	per doz.
		Ditto ditto galvanized	23/6	25/0	26/6	28/0	29/6	..
		Heavy ditto self-colour, 80/0; ditto, galvanized, 94/0 per cwt.						

STAY BOLTS, FOR SHIPS.

Plain Flat Round Heads, self-colour, 47/6 per cwt.	
Ditto ditto galvanized, 59/0 ..	
Bevilled Flat Round Heads, for larboard and starboard, self-colour, 52/6 per cwt.	
Ditto ditto galvanized, 66/6 ..	

BELAYING AND THOWEL PINS.

Belaying Pin with hole, and Thowel Pin without hole, self-colour, 50/0 per cwt.	
Ditto ditto galvanized, 63/0 ..	
Ring Bolts for Boats, loose ring, tapered pin with rivetting plate, self-colour, 61/0 per cwt.	
Ditto ditto galvanized, 72/0 ..	
Ditto ditto straight ditto self-colour, 57/6 ..	
Ditto ditto ditto galvanized, 69/6 ..	

KNEES, FOR BOATS.

For Gigs, 7 in. x 12 in. x 1½ in., flat, half round.....	Self-colour, 54/0 per cwt.
„ Skiffs, 8 in. x 12 in. x 1½ in., ditto	
„ Life, 9 in. x 16 in. x 1½ in., ditto	
„ Gigs, Skiffs, and Life Boats, as above.....	Galvanized, 66/0 ..

BOOM RINGS—WROUGHT IRON.

External Diameter....	6	6½	7	7½	8	8½	9	9½	10	inches.
Sizes of Iron	1½ x ½	1½ x ½	2 x ½	2 x ½	2 x ½	2 x ½	2 x ½	2½ x ½	2½ x ½	..
Turned and Fitted.....	8/0	8/9	9/9	10/9	11/9	12/9	13/9	14/9	15/9	each.

TIGHTENING SCREWS.

Diameter and Length of Screw..	6 x ½	7 x ½	8 x ½	9 x ½	10 x ½	11 x ½	12 x 1	inch.
With Clip Hook and Swivel.....	8/3	9/6	10/9	12/3	13/6	14/9	16/0	each.

TIMBER HAULING HOOKS.

With Flat or Round Points, self-colour, 66/0; galvanized, 79/0 per cwt.															
	No. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Brass Eyelets, strong ..	2/0	2/0	2/5	2/8	3/0	4/0	4/10	5/8	6/2	6/9	8/9	10/0	12/0	15/9	24/0 per gross.

STEM PLATES, FOR BOATS.

Gigs, 3½ in. x 3 in. x ½ in. wide, by 10 Gauge thick, by 5 ft. 6 in. long, self-colour, 18/6 per cwt.	
Ditto, as above ditto ditto ditto galvanized, 21/0 ..	
Skiffs, 5 in. x 4 in. x 1 in. wide, by 10 Gauge thick, by 6 ft. long	self-colour, 28/9 ..
Ditto, as above ditto ditto ditto galvanized, 33/0 ..	
Life, 5 in. x 4 in. x 1 in. wide, by 10 Gauge thick, by 7 ft. 6 in. long	self-colour, 32/0 ..
Ditto, as above ditto ditto ditto galvanized, 37/0 ..	

ANCHORS, FOR BOATS.

Weight of each Anchor	7 to 14	14 to 20	20 to 56	56 to 112 lbs.
Ordinary Shapes, self-colour	65/0	47/6	42/0	39/6 per cwt.
Ditto galvanized	78/0	62/0	54/0	51/6 ..

N.B.—Made with Fixed or Loose Stocks.

Belaying Cleats for Boats, 7 in. long by ¾ in. round iron, self-colour, 5/3; galvanized, 6/0 per doz.

Any pattern made to order.

Tack Hooks for Boats, right and left hand, self-colour, 19/0; if galvanized, 21/0 per doz. pairs.

GRAPNELS.

Weight of each Grapnel....	from 7 to 14	14 to 28	28 to 112 lbs. each.
Straight Spike, self-colour	65/0	54/0	42/0 per cwt.
Ditto galvanized	78/0	65/6	55/0 ..
Curved ditto self-colour	59/0	54/0	42/6 ..
Ditto galvanized	79/0	68/0	55/0 ..

SHIP LOGS.

Walker's Harpoon Ship Log, A 1, 67/6; A 2, 54/0 each.	
Ditto Detached ditto 54/0 each.	
Ditto Massey's ditto 54/0 ..	

SOUNDING MACHINES.

Walker's Patent Harpoon Sounding Machine, 54/0 each.	
Ditto Massey's Sounding Machine, 60/0 ..	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

PLANTATION HOES, MATTOCKS, FORKS, &c.

CAROLINA HOES, &c.

	Sizes..	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	ins.
No.	0000	000	00	1	2	3	4	5	6	
Carolina Hoes, half-bright, well steeled.....	14/6	16/6	17/6	20/0	22/9	25/6	28/0	31/0	doz.	
Ditto cast steel, polished back, warranted to cut as an adze ..	19/9	22/0	23/6	26/0	30/0	35/0	41/0	46/0	"	
Ditto bright back, well steeled	17/6	19/0	21/0	23/6	27/0	31/0	34/6	39/0	"	
Ditto full weight, japanned or self-coloured, well steeled ..	14/9	16/0	17/6	20/0	22/9	25/6	28/0	31/0	"	
Ditto light weight, ditto	13/3	14/6	15/9	18/0	21/0	23/6	26/6	28/0	"	
Ditto iron, light weight, japanned or self-coloured....	12/6	13/9	15/0	17/3	19/6	21/9	24/0	26/6	"	
Sizes..	5½ by 6½	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	ins.	
No.	00	0	1	2	3	4	5	6		
DEMERARA HOES, STEELED	13/6	14/9	16/0	18/9	21/6	24/0	26/9	29/6	doz.	
Ditto ditto light weight, steeled	11/6	12/6	13/6	15/9	18/0	20/6	22/6	24/6	"	
If extra weight, 1/- per doz. extra.										
Sizes ..	5½ by 7	5¾ by 7¼	6¼ by 8	6¾ by 8¾	7¼ by 9	7¾ by 9¾	8½ by 9½	9 by 10	ins.	
No.	1	2	3	4	5	6				
P. and Crown West India Hoes	24/0	27/0	30/0	33/0	36/0	39/0	doz.			
Sizes ..	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	ins.				
No.	0	1	2	3	4					
PATENT RIVETTED EYED CAST STEEL CAROLINA HOES.....	32/0	36/6	38/6	41/0	43/0	doz.				
WEST INDIA HOES.										
Sizes ..	5 by 6½	5½ by 7	6 by 7½	6½ by 8	7 by 8½	7½ by 9	8 by 9½	8½ by 10	ins.	
No.	00	0	1	2	3	4	5	6		
Bright back, full weight, steeled, West India Hoes	18/6	20/0	22/6	26/0	32/0	36/0	40/0	47/6	doz.	
Full weight, steeled, half-bright ditto	17/0	18/6	21/0	23/6	26/0	29/0	32/0	35/0	"	
Ditto ditto japanned, or self-coloured ditto	13/4	14/9	16/9	19/0	21/6	24/0	27/0	29/6	"	
Light weight, ditto	14/6	15/9	18/3	20/6	23/0	25/6	28/0	31/6	"	
Sizes ..	5 by 7	5½ by 7½	6 by 8	6½ by 7½	7 by 9	7½ by 9½	8 by 10	ins.		
No.	00	0	1	2	3	4	5	6		
Bright polished back, C.S. West India Hoes, warranted ..	25/0	28/4	31/8	35/0	38/4	41/8	45/0	doz.		
to cut as an adze	5½ by 6½	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	ins.		
Sizes ..	14/6	16/6	18/6	20/6	23/3	25/6	27/3	doz.		
Sizes ..	5½ by 6½	6 by 7½	6½ by 7½	7 by 8½	7½ by 8½	8 by 9½	8½ by 9½	ins.		
No.	20/0	22/9	25/4	28/0	30/9	33/6	36/0	doz.		
Frenchay West India Hoes, heavy steeled	Sizes ..	4½ by 7½	5 by 7¾	5½ by 8½	6 by 9	6½ by 9½	ins.			
No.	1	2	3	4	5					
STRONG HILLING OR RICE HOES, STEELED	18/0	19/8	22/0	24/6	26/9	doz.				
Light Hilling or Rice Hoes, steeled	18/0	19/8	22/0	24/6	26/9	"				
Sizes ..	7 by 6¾	7½ by 7¼	8 by 7¾	8½ by 8½	9 by 9½	ins.				
No.	19/0	21/6	24/0	27/0	doz.					
COLUMBIA HOES, WELL STEELED	Sizes ..	7 by 8	7½ by 8½	8 by 9	8½ by 9½	ins.				
No.	19/0	21/6	24/0	27/0	doz.					

WEST INDIA HOES.

	<div> <div>Sizes .. 5 by 6½ 5½ by 7 6 by 7½ 6½ by 8 7 by 8½ 7½ by 9 8 by 9½ 8½ by 10 ins.</div> <div>No. 00 0 1 2 3 4 5 6</div> </div>											
2130	Bright back, full weight, steeled, West India Hoes	18/6	20/0	22/6	25/0	32/0	36/0	40/0	47/6	doz.		
2131	Full weight, steeled, half-bright ditto	17/0	18/6	21/0	23/6	26/0	29/0	32/0	35/0	"		
2132	Ditto ditto japanned, or self-coloured ditto	13/4	14/9	16/9	19/0	21/6	24/0	27/0	29/6	"		
2133	Light weight, ditto	14/6	15/9	18/3	20/6	23/0	25/6	28/0	31/6	"		
	Sizes .. 5 by 7 5½ by 7½ 6 by 8 6½ by 7½ 7 by 9 7½ by 9½ 8 by 10 .. ins.	No. 00 0 1 2 3 4 5 6										
2134	Bright polished back, C.S. West India Hoes, warranted to cut as an adze	25/0	28/4	31/9	35/0	38/4	41/8	45/0	..	doz.		
	Sizes .. 5½ by 6½ 6 by 7 6½ by 7½ 7 by 8 7½ by 8½ 8 by 9 8½ by 9½ ins.											
2135	Light Barbadoes or West India Hoes, all iron	14/6	16/6	18/6	20/6	23/3	25/6	27/3	27/3	doz.		
	Sizes .. 5½ by 6½ 6 by 7½ 6½ by 7½ 7 by 8½ 7½ by 8½ 8 by 9½ 8½ by 9½ ins.											
2136	Frenchay West India Hoes, heavy steeled	20/0	22/9	25/4	28/0	30/9	33/6	36/0	36/0	doz.		
	Sizes .. 4½ by 7½ 5 by 7½ 5½ by 8½ 6 by 9 6½ by 9½ ins.	Sizes No. 1 2 3 4 5										
2137	STRONG HILLING OR RICE HOES, STEELED	18/0	19/8	22/0	24/6	26/9	26/9	26/9	26/9	doz.		
2138	Light Hilling or Rice Hoes, steeled	18/0	19/8	22/0	24/6	26/9	26/9	26/9	26/9	"		
	Sizes .. 7 by 6½ 7½ by 7½ 8 by 7½ 8½ by 8½ ins.	Sizes No. 1 2 3 4 5										
2139	COLUMBIA HOES, WELL STEELED	21/6	24/0	26/9	29/6	32/0	35/0	38/4	41/8	45/0	doz.	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

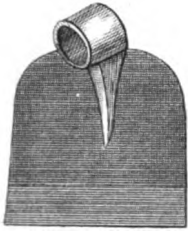
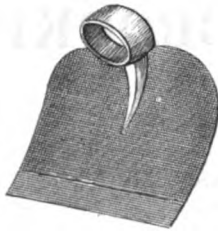
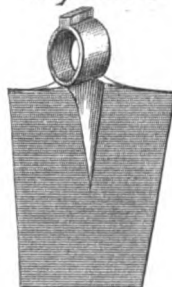
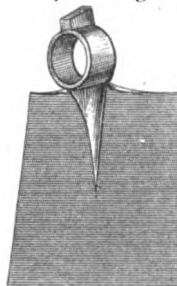
EDWARD BROOKES.

PLANTATION HOES, &c.—Continued.

BOSTON OR CANADA HOES.

2140	Boston or Canada Hoes, bright back, polished, well steeled	Sizes ..	7	7½	8	8½	9	9½ ins.		
2141	Black Japanned ditto, ditto		26/8	28/3	30/0	32/0	34/0	36/0 doz.		
2142	CAST STEEL, PATENT OR RIVETTED, BRIGHT, WELL STEELED		23/0	25/0	26/6	28/0	30/0	31/6 "		
		Sizes ..	8 by 7	8½ by 7½	9 by 8	9½ by 8½	ins.			
		No.	1	2	3	4				
2143	TWISTED NECK LOUISIANA HOES, half bright, well steeled		28/0	31/0	35/0	38/0				
	If made from cast steel, 4/0 per doz. extra.									
2144	GERMAN NECK HOES	Sizes ..	6 by 7	6½ by 7½	7 by 8	7½ by 8½	ins.			
			20/0	22/6	25/0	27/6	doz.			
2145	SPANISH RIBBED HOE ADZES	Sizes ..	7½ by 4½	8 by 5	8½ by 5½	9 by 6	ins.			
	If all iron, 3/0 per doz. less; if cast steel faced and blued, 8/6 per doz. extra.		24/0	26/8	29/4	32/0	doz.			
2146	BRAZIL HOES	Sizes ..	8 by 9	8½ by 9½	9 by 10	9½ by 10½	ins.			
	If steeled, 3/6 per doz. extra.		3½	4	4½	5	lbs. ea.			
2147	SPANISH OR VALPARAISO HOES	Sizes ..	6 by 10½	6½ by 11	7 by 11½	7½ by 12	ins.			
	If steeled, 7/6 per doz. extra; each size tapering ¼ in. to cutting edge. If cast steel faced and best blued, 16/6 per doz. extra.		4½	5	5½	6	lbs. ea.			
2148	RING EYED HOES, STEELED	Sizes ..	19/0	22/0	25/6	29/6	doz.			
2149	Ditto up-shouldered, new pattern, bright back and broad blades	Sizes ..	6½ by 9	7 by 9½	7½ by 10	7½ by 10½	ins.			
	If all iron, 5/0 per doz. less		27/6	30/6	34/0	38/0	doz.			
2150	BENT RICE OR COFFEE HOES	Sizes ..	7	7½	8	8½	ins.			
2151	PORTUGUESE HOES, steel face, half bright	Sizes ..	13/4	14/8	16/0	17/6	doz.			
		No.	8½ by 8½	9 by 9	9½ by 9½	ins.				
2153	AMERICAN PLANTERS' HOES, half bright, steel faced	Sizes ..	5 by 6	5½ by 6½	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	ins.
2153	Ditto bright back, from shear steel	No.	000	0	1	2	3	4		
			24/0	25/4	26/8	28/0	30/8	33/4	36/0	doz.
			24/0	25/4	26/8	28/0	30/8	33/4	36/0	"
2154	MAMMOOTIE OR NECKED EAST INDIA HOES, STEELED.	Sizes ..	8½ by 11	9 by 11½	9½ by 11½	9½ by 12	ins.			
			6	7	8	9	lbs. ea.			
2154	LONG NECKED MAMMOOTIE	Sizes ..	71/0	77/0	80/0	83/0	doz.			
2155	GUATEMALA OR SPANISH HOES, with turned-up edges, steeled	Sizes ..	4½	5	5½	6	lbs. ea.			
			29/0	32/0	doz.					

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*2120, Carolina.**2126, Demerara.**2128P, & Crown
West India.**2129, Patent Rivelled
Eyed Carolina.**2130, West India.**2135, Light Barbadoes.**2136, Frenchay
West India.**2137, Strong Hilling
or Rice.**2139, Columbia.**2140, Boston or
Canada.**2143, Twisted Neck
Louisiana
Half Bright.**2144, German Neck.**2145, Spanish Ribbed
Hoe Adze.**2146, Brazil.**2147, Spanish or
Valparaiso.**2148, Ring'd Eyed.**2151, Portuguese.**2149, Ring'd Eyed
Square Shouldered.**2150, Bent Rice
or Coffee.**2152, American Planters*

For Prices see pages 156 and 157.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

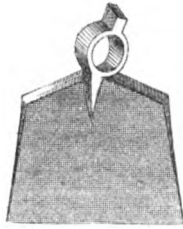
PLANTATION HOES, &c.—Continued.

Dis- count.	No.	MAMOOTIE, OR NECKED EAST INDIA HOES, STEELED.									
			Weight, 6		7		8		9 lbs. each.		
			Sizes, 8½ by 11		9 by 11½		9½ by 11½		9½ by 12 inches.		
2154	Long Necked Mamootie Hoes (if cast steel face, 2/6 per doz. extra)	67/6	72/6	75/0	77/6	per doz.					
			Weight, 4½		5		lbs. each.				
			Sizes, 10 by 11		10½ by 11½		inches.				
2155	Guatemala, or Spanish Hoe, with turned up edges, steeled	32/3	36/0	per doz.							
	N.B.—All these below, up to 2188, are the same sizes.										
		No.	000	00	0	1	2	3	4		
		Sizes, 5 by 6 5½ by 6½ 6 by 7 6½ by 7½ 7 by 8 7½ by 8½ 8 by 9 in.									
2181	Cast steel face, all bright, American Planters' Hoes ..	27/9	30/3	31/9	33/3	36/6	39/9	42/9	doz.		
2182	Ditto ditto half-bright ditto ..	25/0	26/6	28/0	29/3	32/0	34/9	37/9	..		
2183	Ditto all bright, oval eyed ditto ..	27/9	30/3	31/9	33/3	36/6	39/9	42/9	..		
2184	Ditto face, half-bright, oval eyed, American Planters' Hoes	25/0	26/6	28/0	29/3	32/0	34/9	37/9	..		
2185	Cast steel face, all bright, low shoulder, American Planters' Hoes	27/9	30/3	31/9	33/3	36/6	39/9	42/9	..		
2186	Cast steel face, half-bright, low shoulder, American Planters' Hoes	25/0	26/6	28/0	29/3	32/0	34/9	37/9	..		
2187	Cast steel, all bright, oval eyed, low shoulder, American Planters' Hoes	27/9	30/3	31/9	33/3	36/6	39/9	42/9	..		
2188	Cast steel, half-bright, oval eyed, low shoulder, American Planters' Hoes	25/0	26/6	28/0	29/3	32/0	34/9	37/9	..		
		No.	1	2	3	4	5	6			
		Sizes, 4½ by 8 5 by 8½ 5½ by 9 6 by 9½ 6½ by 10 7 by 10½ in.									
2189	Cast steel face, all bright, Hilling, or Rice Hoes ..	35/0	36/6	41/3	44/6	46/3	50/0	doz.			
2190	Ditto ditto half-bright ditto ditto	32/0	33/6	36/3	39/0	42/3	44/9	..			
	All the above, from No. 2181 to No. 2190, if polished, are 3/9 per doz. extra.										
		No.	0000	000	00	0	1	2	3	4	
		Sizes, 6 by 7 6½ by 7½ 7 by 8 7½ by 8½ 8 by 9 8½ by 9½ 9 by 10 9½ by 10½ in.									
2191	Full weight bright back Iron Carolina Hoes ..	15/9	17/0	20/9	24/0	27/0	30/0	33/6	36/6	doz.	
		No.	1	2	3	4	5	6			
		Sizes, 6 by 8½ 6½ by 9 7 by 9½ 7½ by 10 8 by 10½ 8½ by 11 in.									
2192	Japanned Bayonet Ribbed Kodally Hoes, extra steeled ..	29/9	32/9	35/9	39/0	42/0	44/6	doz.			
		Weight, 6½		7		7½ lbs. each.					
2193	Steeled, extra strong taper Spanish Digging Hoes	56/9	59/9	62/6	per doz.						
		Weight, 4		4½		5 lbs. each.					
2194	Half-bright Roquera Hoe Adzes, cast steel	39/0	41/0	45/6	per doz.						
2195	Steeled Egyptian Hoes, self-colour, 24/0 per doz.										
		No.	1	2	3	4	5				
2196	Japanned Socket Russian Field Hoes	17/3	19/3	21/6	22/6	24/0	per doz.				
		Weight, 3		4		5		6 lbs. each.			
2197	Steeled, extra strong Mamootie, japanned, for tea & coffee plantation ..	35/9	38/9	42/0	44/9	per doz.					
		Sizes, 8½ by 8½		8½ by 9		inches.					
2198	Cast Steel Spanish Leconas, or Socket Hoes	62/6	65/9	per doz.							
		Weight, 4		4½		5 lbs.					
2199	Diamond Point Spanish Digging Hoes, steeled, self-colour	38/9	42/0	46/0	per doz.						
2200	Sachos, or Spanish Weeding Hoes, common, 17/9; middle, 19/6; best, 22/6 per doz.										
		Weight, 2		2½		3		3½		4 lbs. each.	
2201	Russian Hoes, self-colour	19/3	21/0	22/6	24/0	25/6	per doz.				
		No.	00	0	1	2	3	4	5	6	
		Sizes, 5½ by 6½ 6 by 7 6½ by 7½ 7 by 8 7½ by 8½ 8 by 9 8½ by 9½ 9 by 10 inches.									
2202	Iron Demerara Hoes (if extra weight, 1¼ per doz. extra) ..	11/6	13/3	14/3	16/9	19/3	21/6	24/3	26/6	per doz.	
		Sizes, 7½ by 8½		8 by 9 8½ by 9½		9 by 10 9½ by 10½		inches.			
2203	Japanned East Indian Indigo Hoes, steeled	17/3	21/3	24/0	26/0	29/0	per doz.				

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

2154. Long Neck
Mamootie.



2155. Guatalama, or
Spanish Hoe.



2181. C. S. American
Planters'.



2183. C. S. Oval Eye
American Planters'.



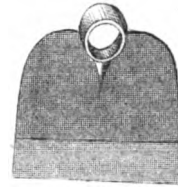
2185. C. S. Low
Shoulder
American Planters'.



2187. C. S. Oval Eye
Low Shoulder
American Planters'.



2189. C. S. Hilling,
or Rice Hoe.



2191. Black Iron
Carolina Hoe.



2199. Bayonet Ribbed
Kodally Hoe.



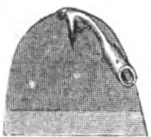
2193. Taper Spanish
Digging Hoe.



2194. Roquera
Hoe Adze.



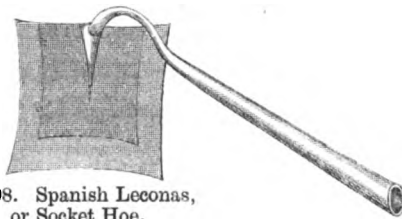
2195. Egyptian
Hoe.



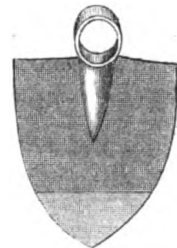
2196. Socket
Russian
Field Hoe.



2197. Extra Strong
Mamootie.



2198. Spanish Leconas,
or Socket Hoe.



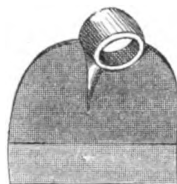
2199. Spanish
Digging Hoe.



2200. Sachos, or
Spanish
Weeding Hoe.



2201. Russian Hoe.



2202. Demerara Hoe.



2203. East Indian
Indigo Hoe.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANTATION HOES, &c.—Continued.

Dis- count.	No.	Sizes, 6½ by 8½ 6½ by 9 7 by 9½ 7½ by 10 8 by 10½ 8½ by 11 ins.						
		No. 0	1	2	3	4	5	6
	2204	Japanned India Kodally Hoes, steeled (if steeled half way up, best steel, 3/9 doz. extra).... 25/6 27/9 30/0 32/0 34/6 37/0 per doz.						
		Sizes, 5½ by 7 6 by 7½ 6½ by 8 7 by 8½ 7½ by 9 8 by 9½ 8½ by 10 ins.						
	2205	Bright East India Steeled Holing Hoes 20/9 23/9 27/9 30/0 33/6 36/6 39/9 per doz.						
	2206	Japanned East India Holing Hoes 16/3 18/9 21/3 24/0 26/6 29/0 31/3 ..						
		Weight, 2½ 3 3½ 4 4½ 5 lbs. each.						
		Sizes, 7½ by 6½ 8 by 7 8½ by 7½ 9 by 8 9½ by 8½ 10 by 9 ins.						
	2207	Japanned Narrow Digging or Holing Hoes, steeled 20/9 24/0 26/6 29/3 31/3 35/0 per doz.						
		Weight, 2½ 3 3½ 4 4½ 5 lbs. each.						
		Sizes, 7½ by 8½ 8 by 9 8½ by 9½ 9 by 10 9½ by 10½ 10 by 11 ins.						
	2208	Broad Japanned Steeled Weeding Hoes, for Ceylon 20/9 24/0 26/6 29/3 31/3 35/0 per doz.						
		Weight, 4 4½ 5 5½ lbs. each.						
		Sizes, 9½ by 10½ 10 by 11 10½ by 11½ 10½ by 11½ ins.						
	2209	Mamottee, or Short Neck East India Hoes, self-colour (if cast steel face, 3/0 per doz. extra).... 42/0 44/6 47/9 50/9 per doz.						
		Weight, 7 8 9 10 11 12 lbs. each.						
		Sizes, 8½ by 11½ 8½ by 12 9 by 12½ 9½ by 12½ 9½ by 12½ 9½ by 13 ins.						
	2210	Dhangler Hoes, self-colour 56/9 59/9 62/6 65/6 68/6 71/6 per doz.						
		Weight, 4 4½ 5 5½ lbs. each.						
		Sizes, 7½ by 10½ 8 by 11 8½ by 11½ 8½ by 11½ ins.						
	2211	Bramin Hoes, well steeled, self-colour..... 38/9 40/6 42/0 45/6 per doz.						
		No. 1 2 3 4						
		Sizes, 6 by 8 6½ by 8½ 7 by 9 7½ by 9½ ins.						
	2213	Staple Eyed Java Hoes, square shoulders, self-colour..... 25/6 28/6 31/3 34/6 per doz.						
	2214	Ditto ditto round shoulder, with wedge, cast steel, self-colour..... 44/3 47/9 50/9 54/0 ..						
		Weight, 3½ 4 4½ lbs. each.						
		Sizes, 6½ by 8½ 7 by 9 7½ by 9½ ins.						
	2215	Extra Strong Havannah Taper Digging Hoes, japanned 44/6 47/9 50/9 per doz.						
		Weight, 3 3½ 4 4½ 5 lbs. each.						
	2216	Cast Steel Indian Hilling Hoes..... 32/9 35/9 38/9 42/0 45/0 per doz.						
		Weight, 3½ 4 4½ lbs. each.						
		Sizes, 7½ by 9½ 7½ by 10 8½ by 10½ ins.						
	2217	Bengal Ribbed Digging Hoes, all iron, self-colour (if steeled and ground, 8/0 per doz. extra) 24/3 27/0 29/9 per doz.						
		No. 1 2 3						
		Weight, 4 4½ 5 lbs. each.						
	2218	Buck Hoes, self-colour 27/0 30/0 32/9 per doz.						
		Weight, 3 3½ 4 4½ lbs. each.						
		Sizes, 6½ by 11 7 by 11½ 7½ by 12 8 by 12½ ins.						
	2219	Improved Solid Eyed Bonnet Hoes, self-colour..... 38/9 41/6 44/3 46/6 per doz.						
		No. 1 2 3						
		Sizes, 6 by 7½ 6½ by 8 7 by 8½ ins.						
	2220	Japanned Two-prong Indian Hoes, well-steeled 33/9 36/6 39/0 per doz.						
		No. 1 2 3						
	2222	Spanish Hoes, cast steel, concave mouth 37/3 40/3 43/3 per doz.						
	2223	Spanish Heavy Spade Hoes, cast steel faced, ¾ bright, 93/0 per doz.						
		No. 1 2 3						
		Sizes, 5 by 8 5½ by 8½ 6 by 9 ins.						
	2224	Scotch Deep Solid Neck Turnip Hoes..... 24/6 26/0 28/6 per doz.						
		No. 1 2 3						
	2225	Shovel Pattern Hoes..... 41/0 44/9 48/6 per doz.						
		No. 10 11 12						
	2226	Spanish Dragos, steeled faced, self-colour..... 29/6 32/6 35/6 per doz.						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

2204. Indian
Kodally Hoe.



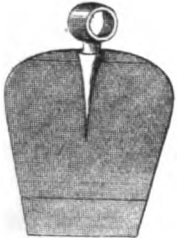
2205. East Indian
Holing Hoe.



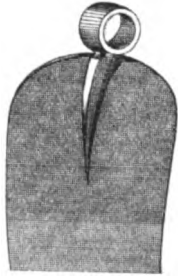
2207. Narrow Digging
or Holing Hoe.



2208. Ceylon Broad
Weeding Hoe.



2209. Mamootie, or
Short Neck East
Indian Hoe.



2210. Dhangler Hoe.



2211. Brahmin Hoe.



2212. Staple Eyed
Java Hoe.



2214. Staple Eyed
Java Hoe, with Wedge.



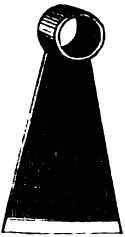
2215. Strong Havannah
Taper Digging Hoe.



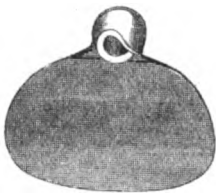
2216. Indian
Hilling Hoe.



2217. Bengal Ribbed
Digging Hoe.



2218. Buck Hoe.



2219. Solid Eyed
Bonnet Hoe.



2220. Two-pronged
Indian Hoe.



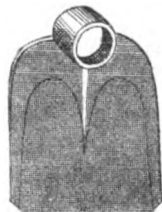
2222. Spanish
Concave Hoe.



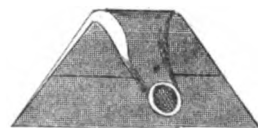
2223. Spanish Heavy
Spade Hoe.



2224. Scotch Solid
Neck Turnip Hoe.



2225. Shovel Pattern
Hoe.



2226. Spanish
Dragos.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

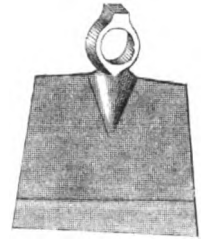
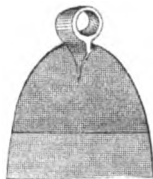
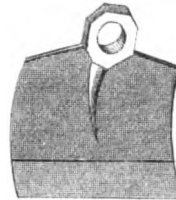
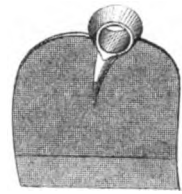
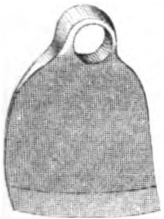
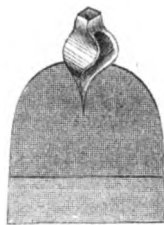
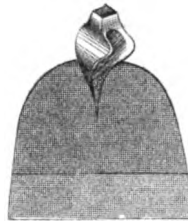
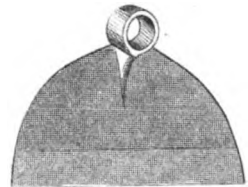
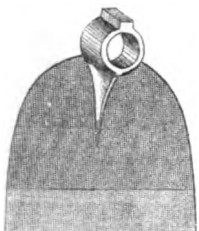
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANTATION HOES, &c.--Continued.

Dis- count.	No.		Weight.	3½	4	4½	5 lbs. each.
	2227	Single Pick Grubbing Hoes, self-colour	29/6	32/9	35/9	39/0	per doz.
	2228	Ditto ditto ditto	29/6	32/9	35/9	39/0	"
		Weight, 5 6 7 8 9 lbs. each.					
		Sizes, 11 by 3½ 11 by 3½ 11 by 4 11 by 4½ 11 by 4½ ins.					
	2229	Spanish Hoes Pick, self-colour	50/0	52/9	57/0	59/9	62/6 per doz.
		Weight, 6½ 7 7½ 8 lbs. each.					
		Sizes, 8 by 14½ 8½ by 15 8½ by 16 9 by 16½ ins.					
	2230	Conception, or Vine Hoes, steeled	44/3	47/9	50/9	54/0	per doz.
		If cast steel faced, bright and blued, 13/6 per doz. extra.					
		Weight, 5 5½ 6 lbs. each.					
		Sizes, 9 by 11 9½ by 11½ 10 by 12 ins.					
	2231	Spanish Mining Hoes, self-coloured	32/9	35/9	39/0	per doz.	
		If steeled, 5/6 per doz. extra; if cast steel face and best japanned, 19/6 per doz. extra.					
		Weight, 4 4½ 5 5½ 6 6½ lbs. each.					
		Sizes, 6½ by 9½ 7 by 10 7½ by 10½ 8 by 11 8½ by 11½ 9 by 12 ins.					
	2232	Spanish Digging Hoes, cast steel face, self-colour	37/6	40/0	43/0	46/0	49/0 52/0 per doz.
		If ground bright and best japanned, 8/0 per doz. extra.					
		No. 1 2 3 4					
		Sizes, 7 by 7½ 7½ by 8 7½ by 8½ 8 by 9 ins.					
	2233	Narrow German Neck Hoes, japanned	20/9	23/6	26/0	28/9	per doz.
		All iron, 2/0 per doz. less.					
		Weight, 1 2 3 4 lbs. each.					
		Sizes, 7½ by 8 8 by 8½ 8½ by 9 9 by 9½ ins.					
	2234	Pátgol, or Java Weeding Hoes, with drilled eyes	32/9	33/9	39/0	42/0	per doz.
		If with handles, 8/0 per doz. extra.					
		No. 1 2 3 4					
		Sizes, 7½ by 7½ 8 by 8 8½ by 8½ 9 by 9 ins.					
	2235	Hammer Head Ringed Eye Hoes, self-colour	17/9	25/0	28/0	30/9	per doz.
		If steeled, 2/9 per doz. extra.					
	2236	Bright Back, Cast Steel, Deep Ringed, Eye Hoes	22/3	24/6	27/0	29/6	"
	2237	Deep Ringed Eye Hoes, self-colour	17/9	20/0	23/8	24/6	"
		Weight, 2½ 2½ 3 3½ 3½ lbs. each.					
	2238	Solid Eye Columbia Hoes, steeled	21/6	23/0	24/6	26/3	27/9 per doz.
		Weight, 2½ 3 3½ 4 4½ 5 lbs. each.					
		Sizes, 7½ by 7½ 8 by 8 8½ by 8½ 8½ by 8½ 9 by 9 9½ by 9½ ins.					
	2239	Brazil Hoes, cast steel face, all bright narrow pattern	40/0	43/3	46/0	49/3	52/3 54/0 per doz.
	2240	Brazil Hoes, cast steel face, three-quarter bright narrow pattern	37/3	39/0	42/0	46/6	47/9 50/9
		Sizes, 7½ by 8½ 8 by 9½ 8½ by 9½ 9 by 9½ 9½ by 10½ ins.					
	2241	Brazil Hoes, cast steel face, half bright, broad pattern	35/9	39/6	42/0	44/9	47/9 per doz.
	2242	Ditto ditto three-quarter bright, ditto	39/6	42/0	44/9	47/9	50/9 "
	2243	Ditto ditto all bright, blued	42/0	44/9	47/9	50/9	54/0 56/9 "
	2244	Ditto ditto three-quarter bright, blued	40/3	41/9	43/6	44/9	47/9 50/9 "
	2245	Ditto ditto all bright, blued, broad pattern	46/3	47/9	50/9	54/0	56/9 "
	2246	Ditto ditto three-quarter bright, blued, broad pattern	40/3	44/9	46/3	49/3	52/6 "
	2247	Ditto ditto ditto bayonet rib	46/3	47/9	50/9	54/0	56/9 "
	2248	Ditto ditto ditto ditto blued	47/9	50/0	53/0	55/6	59/3 "
		Sizes, 7½ by 10½ 8 by 11 8½ by 12 8½ by 12 8½ by 13 ins.					
	2249	Ditto ditto ditto round ribbed	44/9	47/9	50/9	54/0	per doz.
		Sizes, 7½ by 13 8 by 14 8½ by 15 8½ by 16 ins.					
	2250	Ditto ditto ditto round eye bayonet rib	56/6	59/9	64/0	67/3	per doz.
		Sizes, 8½ by 11 8½ by 11½ 9 by 12 ins.					
	2251	Ditto ditto ditto hammer head, flat eye	50/9	54/0	56/6	per doz.	
		Weight, 2½ 3 3½ 4 4½ 5 lbs. each.					
		Sizes, 7½ by 7½ 8 by 8 8½ by 8½ 8½ by 8½ 9 by 9½ 9½ by 9½ ins.					
	2253	Ditto ditto ditto blued, square shoulder	38/9	41/6	44/9	47/9	50/9 54/0 per doz.
		Sizes, 7½ by 8 8 by 8½ 8½ by 8½ 8½ by 9½ 9 by 9½ 9½ by 9½ ins.					
	2254	Ditto ditto well steeled, self colour	20/9	24/0	27/0	30/0	32/9 35/9 per doz.
		Sizes, 7½ by 9 7½ by 9½ 8 by 10 8½ by 10½ 9 by 11 ins.					
	2255	Ditto ditto blued, broad pattern	30/0	32/9	35/9	38/9	41/6 per doz.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.2227. Single Pick
Grubbing Hoe.2228. Single
Grubbing Hoe.2229. Spanish
Hoe Pick.2230. Conception
or Vine Hoe.2231. Spanish
Mining Hoe.2232. Spanish
Digging Hoe.2233. Narrow
German Hoe.2234. Patgol, or
Java Weeding Hoe.2235. Hammer Head
Ringed Eye Hoe.2236. Deep Ringed
Eye Hoe.2238. Solid Eye
Columbia Hoe.2239. Brazil Hoe,
Narrow Pattern.2241. Brazil Hoe,
Broad Pattern.2243. Brazil Hoe,
all Bright, Blued,
Narrow Pattern.2245. Brazil Hoe,
all Bright, Blued,
Narrow Pattern.2247. Brazil Hoe,
Bayonet Ribbed.2249. Brazil Hoe,
Round Ribbed.2250. Brazil Hoe,
Round Eye,
Bayonet Ribbed.2251. Brazil Hoe,
Hammer Head,
Flat Eye.2253. Brazil Hoe,
Square Shoulder.2254. Brazil Hoe,
Steeled,
Square Shoulder.2255. Brazil Hoe,
Blued,
Broad Pattern.**ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

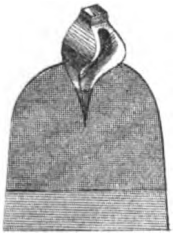
EDWARD BROOKES.

PLANTATION HOES, &c.—Continued.

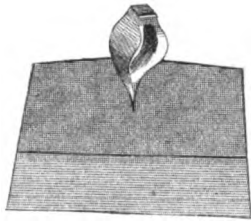
Dis- count.	No.		Weight, 3	3½	4	4½	5 lbs. each.		
			Sizes, 8x8	8½x8½	9x9	9½x9½	9½x9½ inches.		
	2256	Brazil Hoes, blued, well steeled, narrow pattern	30/0	32/9	35/9	38/9	41/6 per doz.		
			Weight, 3½	4	4½	5	5½ lbs. each.		
			Sizes, 8x10½	8½x10½	8½x11½	9x11½	9½x12½ inches.		
	2257	Ditto steeled, three-quarter bright and blued, square shouldered....	41/6	44/9	47/9	50/9	54/0 per doz.		
	2258	Ditto ditto broad pattern	41/6	44/9	47/9	50/9	54/0 „		
			Weight, 2	2½	3	3½	4	4½	5 lbs. each.
			Sizes, 7x9	7½x9½	8x10½	8½x10½	8½x11	9x11½	9½x12 inches.
	2259	Ditto three-quarter bright, steeled, blued, bayonet rib, broad pattern	34/3	37/3	40/6	43/6	47/3	49/3	52/3 per doz.
			Sizes, 7½x7½	7½x8	8x8½	8½x8½	8½x9	9x9½	9½x9½ inches.
	2260	Ditto ditto narrow pattern	34/3	37/3	40/6	43/6	46/3	49/3	52/3 per doz.
			Sizes, 7x9	7½x9½	8x10½	8½x10½	8½x11	9x11½	9½x12 inches.
	2261	Ditto three-quarter bright, bayonet rib, broad pattern	30/9	34/3	37/3	40/6	43/6	46/3	49/3 per doz.
			Sizes, 7½x9	8x9½	8½x10	8½x10½	9x11	9½x11½	9½x12 inches.
	2262	Ditto ditto steel face, bayonet rib, low shoulder	36/0	38/9	41/6	44/9	47/9	50/9	54/0 per doz.
			Sizes, 7x9	7½x9½	8x10½	8½x10½	8½x11	9x11½	9½x12 inches.
	2263	Ditto ditto steeled, blued, flat rib, wide pattern	33/0	35/9	38/9	41/6	44/9	47/9	50/9 per doz.
			Sizes, 7½x7½	7½x8	8x8½	8½x8½	8½x9	9x9½	9½x9½ inches.
	2264	Ditto ditto ditto narrow pattern	33/0	35/9	38/9	41/6	44/9	47/9	50/9 per doz.
			Sizes, 7x9	7½x9½	8x10½	8½x10½	8½x11	9x11½	9½x12 inches.
	2265	Ditto ditto steeled, flat rib, broad pattern	30/3	33/3	35/9	38/9	41/6	44/9	47/9 per doz.
			Sizes, 28/6	31/3	34/6	37/6	40/3	43/6	46/0 „
	2266	Ditto imitation three-quarter bright, blued, steeled, broad pattern	28/6	31/3	34/6	37/6	40/3	43/6	46/0 „
	2267	Ditto half-bright, steeled, flat rib, wide ditto	27/0	28/6	31/3	34/9	37/6	40/3	43/6 „
	2268	Ditto ditto ditto narrow ditto	27/0	28/6	31/3	34/9	37/6	40/3	43/6 „
			Sizes, 7½x7½	7½x8	8x8½	8½x8½	8½x9	9x9½	9½x10 inches.
	2269	Iron Rios Hoes	13/6	16/6	19/6	22/6	25/6	28/6	31/6 per doz.
			Sizes, 14/6	16/6	18/0	21/0	23/6	26/0	29/0 „
	2270	Ditto bayonet rib	14/6	16/6	18/0	21/0	23/6	26/0	29/0 „
			Sizes, 7x6½	7½x7	7½x7½	7½x8	8x8½	8½x9	8½x9½ inches.
	2271	Ditto broad pattern	14/9	16/0	18/0	20/9	24/0	27/0	29/0 per doz.
			Sizes, 6½x8	7x8½	7½x9	7½x9½	8x10	8½x10½	9x11 inches.
	2272	Ditto round shoulder	15/9	17/8	20/0	23/0	26/0	29/0	32/0 per doz.
			Weight, 3½	4	4½	5	5½	6 lbs. each.	
			Sizes, ..	8½x11	8½x11½	8½x12	9x12½	..	inches.
	2273	Taper Brazil Hoes, square shoulder .....	..	25/3	28/3	30/9	34/3	..	per doz.
			Sizes, ..	8½x11	9x11½	9½x12	10x12½	10½x13	inches.
	2274	Brazil Hoes, round mouth .....	..	26/3	29/3	32/0	35/0	38/0	per doz.
			Sizes, 8½x10	9x10½	9½x11	10x11½	10½x12	..	inches.
	2275	Taper Brazil Hoes, drilled eye	25/3	28/3	30/9	34/3	37/9	..	per doz.
			Sizes, 8x9	8½x9½	9x10	9½x10½	10x11	..	inches.
	2276	Brazil Hoes, with large eye & square shoulder	23/9	27/0	30/0	32/9	35/9	..	per doz.
			No. 1	2	3	4	..	..	..
			Weight, 5	5½	6	6½	..	..	..
	2277	Cape Grubbing Hoes, japanned	41/9	44/9	47/9	50/9	..	..	..
			Weight, 3½	4	4½	5	..	..	..
	2278	Ox Tongue Grubbing Hoes, japanned	30/0	32/9	35/9	38/9	..	..	..
			Weight, 3	3½	4	4½	..	..	..
	2279	Round Eye Grubbing Hoes, japanned	28/3	30/9	34/3	37/6	..	..	..

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

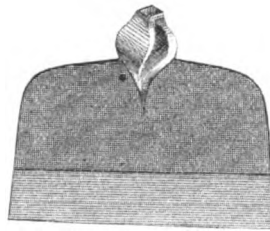
EDWARD BROOKES.



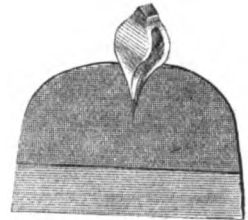
2256. Brazil Hoe,
Narrow Pattern.



2257. Brazil Hoe,
Square Shoulder.



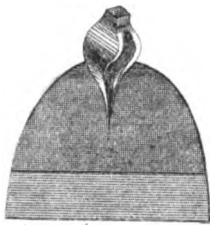
2258. Brazil Hoe,
Broad Pattern.



2259. Brazil Hoe,
Bayonet Rib,
Broad Pattern.



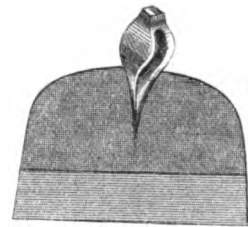
2260. Brazil Hoe,
Narrow Pattern.



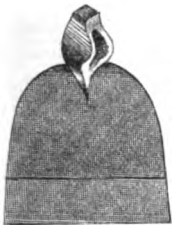
2262. Brazil Hoe,
Bayonet Rib,
Low Shoulder.



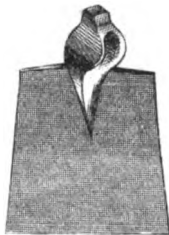
2264. Brazil Hoe,
Flat Rib,
Narrow Pattern.



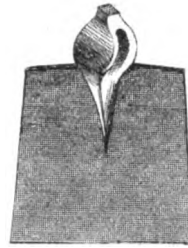
2266. Brazil Hoe,
Broad Pattern.



2268. Brazil Hoe,
Narrow Pattern.



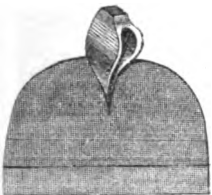
2269. Iron Rios Hoe.



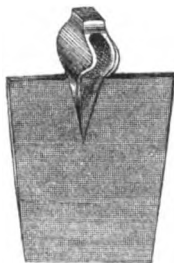
2270. Iron Rios Hoe,
Bayonet Rib.



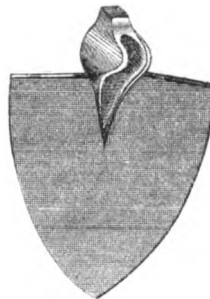
2271. Iron Rios Hoe,
Broad Pattern.



2272. Iron Rios Hoe,
Round Shoulder.



2273. Taper
Brazil Hoe.



2274. Brazil Hoe,
Round Mouth.



2275. Taper Brazil
Hoe, Drilled Eye.



2276. Brazil Hoe,
Large Eye.



2277. Cape
Grubbing Hoe.



2278. Ox Tongue
Grubbing Hoe.



2279. Round Eye
Grubbing Hoe.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANTATION HOES.—Continued.

DIS- COUNT.	No.	No. 1 Weight, 3½	2 4	3 4½	4 5 lbs. each.
2280	Diamond Eye Grubbing Hoes, japanned	29/0.	29/9	32/3	34/0 per doz.
		Weight, 3	3½	4	4½ lbs. each.
2281	Axe Eye Grubbing Hoes, japanned	30/0	32/9	35/9	38/9 per doz.
2282	Oval Eye ditto ditto	30/0	32/9	35/9	38/9 "
2283	Pick Grubbing Hoes ditto	35/0	38/0	41/3	44/9 "
2284	Bechuana Hoes ditto	28/3	30/9	34/3	37/6 "
		Weight, 5	5½	6	6½ lbs. each.
2285	Cast Steel Axe Eye, extra weight, Grubbing Hoes	59/6	62/6	65/9	68/6 per doz.
		Weight, 6	6½	7	7 lbs. each.
		Sizes, 11x4½	11½x5½	12x5½	inches.
2286	Assam Grubbing Hoes	44/9	46/6	47/9	per doz.
	If cast steel face and blued, 11/0 per doz. extra.				
		Weight, 4	4½	5	5½ lbs. each.
2287	Ayadones, or Grubbing Hoes, steeled, blued	42/0	44/9	47/9	50/9 per doz.
2288	Cast Steel Chilian Grubbing Hoes, extra strong, blued	59/6	62/6	65/9	68/6 "
		Weight, 3	3½	4	4½ lbs. each.
2289	Cast Steel Neck Road Grubbing Hoes	38/9	41/9	44/9	47/9 per doz.
2290	West India Grubbing Hoes, steeled, japanned	32/9	35/9	38/9	42/0 "
2291	Steeled, japanned Necked Grubbing Hoes	29/9	32/9	35/9	38/9 "
2292	Bonnet Eye Grubbing Hoes, steeled, japanned	31/3	34/3	37/3	40/3 "
		Weight, 2½	2½	2¾	3 lbs. each.
2293	Bechuana Grubbing Hoes, steeled, broad pattern	23/9	25/6	27/0	28/6 per doz.
		Weight, 4	4½	5	5½ lbs. each.
2294	Long Narrow Grubbing Hoes, steeled, japanned	35/9	38/9	42/0	44/9 per doz.
		Weight, 6	7	8	9 lbs. each.
2295	Strong Old English Grubbing Hoes	62/6	68/6	74/6	80/6 per doz.
		Weight, 2½	3	3½	4 lbs. each.
2296	Straight-sided Grubbing Hoes, steeled, japanned ..	27/0	29/9	32/9	36/9 per doz.
		Weight, 3	3½	4	4½ lbs. each.
		Sizes, ..	..	14 15 16 17 18	inches.
2297	Australian Axe End Mattock, cast steel, blued ....	..	58/6	61/0	64/0 67/0 70/6 per doz.
	Black japanned, common quality, 6/0 per doz. less.				
		Sizes, 11	12	13	14 15 16 17 18 inches.
2298	Light American Grubbing Mattocks, japanned ..	41/6	44/6	47/9	50/9 53/9 57/6 60/6 63/6 per doz.
2299	American Grubbing Mattocks, japanned	7	7½	8	8½ 9 9½ lbs. each.
		All sizes 92/0 per cwt.			
2300	Ditto ditto diamond eye, japanned .....	..	..	92/0	..
		Weight, 4½	5	5½	6 lbs. each.
		Sizes, 1	2	3	4 inches.
2301	Axe End Grubbing Hoes, round eye, japanned	47/9	50/9	53/9	57/6 per doz.
		Weight, 3	3½	4	4½ lbs. each.
		Sizes, 16	17	18	19 20 21 inches.
2302	Light Picks, with axe or mattock end	27/0	30/3	33/9	37/0 40/3 44/0 per doz.
2303	Ditto ditto ditto	27/0	30/3	33/9	37/0 40/3 44/0 "
2304	Best Solid Cast Steel Masons' Brick Axes, assorted 5, 6, 7, 8 lbs., 1/6 per lb.; if shear steeled, 1/4 per lb.				
2305	Masons' Brick Axes, common double face, ditto	3, 4, 5, 6 lbs.,	0/11	..	..
2306	Ditto ditto self colour, ditto	5, 6, 7 lbs.,	0/11	..	..
2307	Ditto common narrow end ditto	5, 6, 7 lbs.,	0/11	..	..

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

2280. Diamond Eye Grubbing Hoe.



2281. Axe Eye Grubbing Hoe.



2282. Oval Eye Grubbing Hoe.



2283. Pick Grubbing Hoe.



2284. Bechuana Grubbing Hoe.



2285. C.S. Axe Eye Grubbing Hoe.



2286. Assam Grubbing Hoe.



2287. Ayadones, or Grubbing Hoe.



2288. Chilian Grubbing Hoe.



2289. C.S. Road Grubbing Hoe.



2290. West India Grubbing Hoe.



2291. Necked Grubbing Hoe.



2292. Bonnet Eye Grubbing Hoe.



2293. Bechuana Grubbing Hoe.



2294. Long Narrow Grubbing Hoe.



2295. Strong Old English Grubbing Hoe.



2296. Straight Sided Grubbing Hoe.



2297. Australian Axe End Mattock.



2298. Light American Grubbing Mattock.



2299. American Grubbing Mattock.



2300. American Gubbing Mattock, Diamond Eye.



2301. Axe End Grubbing Hoe, Round Eye.



2302. Light Picks, with Axe or Mattock Ends.



2303.



2304. C.S. Mason's Brick Axe.



2305. Mason's Brick Axe.



2306. Mason's Brick Axe.



2307. Narrow End Mason's Brick Axe.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANTATION FORKS, &c.

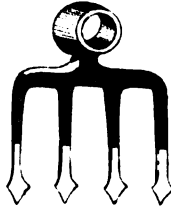
Dis- count.	No.		No. Weight,	1 4	2 4½	3 5	4 5½	lbs. each. per doz.
	2308	CAST STEEL ASSAM PLANTATION FORKS, japanned						
				67/3	68/9	70/0	71/9	
	2309	Ditto	ditto	four prong, japanned	Weight, 94/0	5½ 95/6	6 97/0	6½ 98/6
								lbs. each. per doz.
	2310	FLAT-PRONG ASSAM FORKS, japanned						
				40/0	48/6	46/3	49/3	„
	2311	CAST STEEL TWO-PRONG ASSAM FORKS, japanned						
			Weight, 4	4½	5	5½	lbs. each.	
			47/9	50/9	53/9	56/9	per doz.	
	2312	EYED THREE-PRONG DIGGING FORKS, cast steel prongs						
			74/0	77/6	80/6	83/6	„	
	2313	EAST INDIAN EARTH CLECKS, japanned						
			Sizes, 11 by 6 11½ by 6½ 12 by 7 12½ by 7½ inches.	Weight, 7½ 8½ 9 9½	lbs. each.			
			57/0	60/0	63/6	67/0	per doz.	
	2314	BRAZIL EYED POTATO FORKS, japanned						
			Sizes, 5 by 6½ 5½ by 7 6 by 7½ inches.	28/0	30/9	32/6	per doz.	
		If Steel Pointed, 2/9 per doz. extra.						
	2315	BRAZIL EYED, FOUR-PRONG POTATO FORKS						
			Sizes, 6½ by 7 7 by 7½ 7½ by 8 inches.	38/9	42/0	45/9	per doz.	
		If Steel Pointed per doz. extra.						
	2316	FLAT-PRONG SPANISH RAILWAY RAKE, 5 prongs, 55/0; 6 prongs, 58/0 per doz.						
	2317	Ditto	ditto	ditto	with socket, 5 prongs, 66/0; 6 prongs, 68/6	per doz.		

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



2308. Cast Steel Assam
Plantation Fork.



2309. Cast Steel Assam
Plantation Fork,
Four-prong.



2310. Flat-prong
Assam Fork.



2311. Cast Steel, Two-prong
Assam Fork.



2312. Eyed, Three-prong
Digging Fork.



2313. East Indian
Earth Cleek.



2314. Brazil Eyed Potato
Fork.



2315. Brazil Eyed, Four-prong
Potato Fork.



2316. Flat-prong Spanish
Railway Rake.



2317. Flat-prong Spanish
Railway Rake, with Socket.

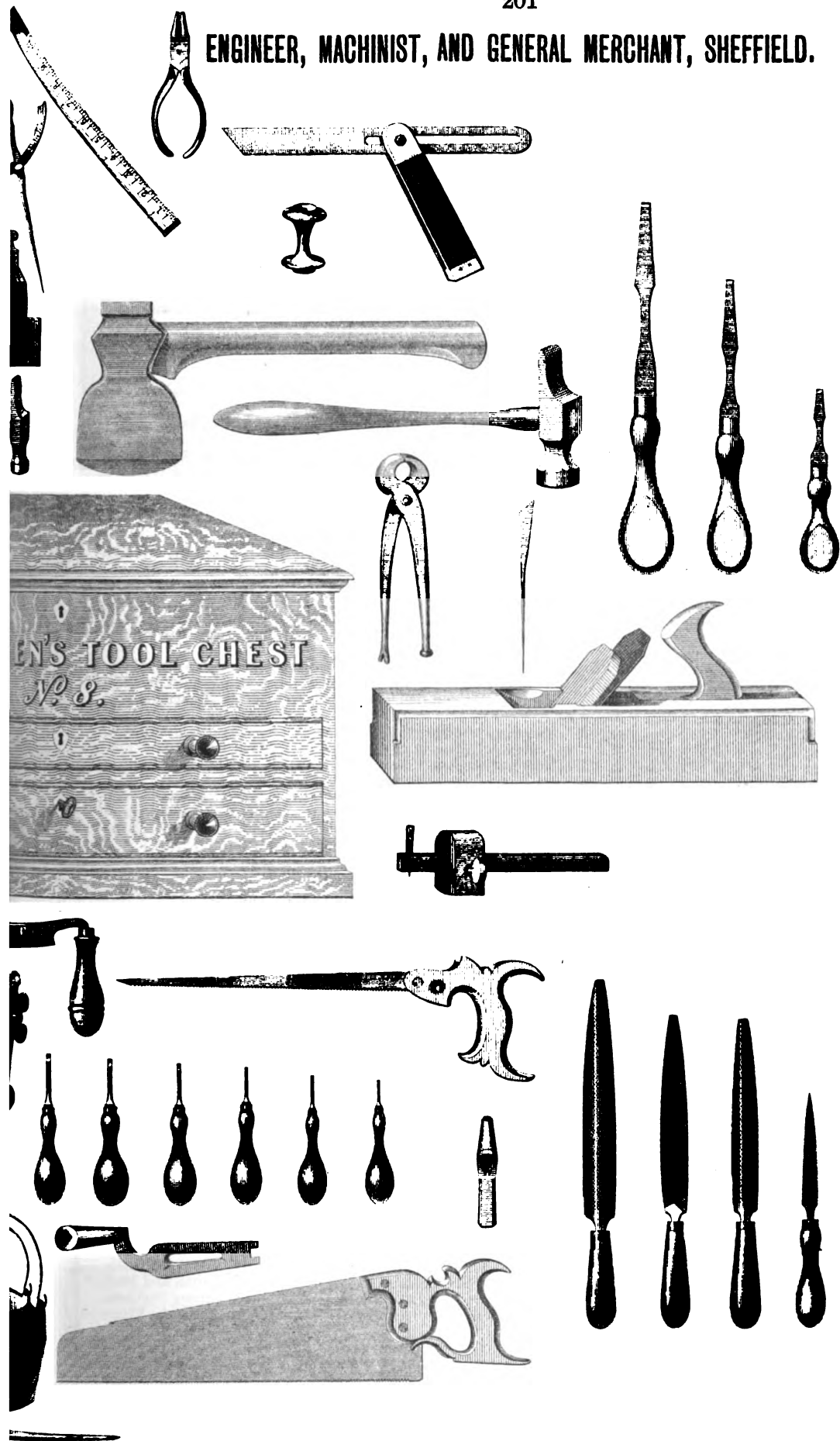
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



For prices see page 202 and 203.

ENGINEER, MACHINIST, AND GENERAL MERCHANT, SHEFFIELD.



THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis-
count.

CONTENTS & PRICES OF GENTLEMEN'S TOOL CHESTS.

- A.—7/0 each.—Hand Saw, Hammer, Mallet, Pincers, Brad Awl, Gimlet, Chisel, Gouge, Turnscrow, &c.
 B.—8/6 each.—Hand Saw, Hammer, Mallet, Pincers, Gimlet, Brad Awl, Chisel, Gouge, Turnscrow, Rule, &c.
 C.—10/0 each.—Hand Saw, Hammer, Mallet, Pincers, Chisel, Gouge, File, Square, Brad Awl, Gimlet, Marking Awl, Punch, Turnscrow, Rule, &c.
 No. 000.—10/9 each.—Hand Saw, Hammer, Mallet, Pincers, Brad Awl, Gimlet, Chisel, Gouge, Turnscrow, Furniture, &c.
 No. 00.—13/0 each.—Hand Saw, Hammer, Mallet, Pincers, Two Gimlets, Two Brad Awls, Chisel, Gouge, Turnscrow, File, Rule, Furniture, &c.
 No. 0.—17/6 each.—Hand Saw, Hammer, Mallet, Rule, Pincers, Two Gimlets, Two Brad Awls, Chisel, Gouge, File, Marking Awl, Punch, Turnscrow, Square, Compasses, Furniture, &c.
 No. 1.—22/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Two Gimlets, Two Brad Awls, Chisel, Gouge, Three Files, Oil Stone, Marking Awl, Punch, Turnscrow, Spokeshave, Square, Claw Wrench, Furniture, &c.
 No. 2.—28/0 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Three Gimlets, Three Brad Awls, Two Chisels, Gouge, Three Files, Oil Stone, Marking Awl, Punch, Turnscrow, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Furniture, &c.
 No. 3.—35/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Three Gimlets, Three Brad Awls, Three Chisels, Two Gouges, Three Files, Oil Stone, Marking Awl, Punch, Two Turnscrows, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Furniture, &c.
 No. 4.—45/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Four Gimlets, Four Brad Awls, Four Chisels, Two Gouges, Three Files, Oil Stone, Marking Awl, Punch, Two Turnscrows, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Marking Gauge, Glue Pot and Brush, Furniture, &c.
 No. 5.—57/6 each.—Hand Saw, Axe, Hammer, Mallet, Rule, Pincers, Five Gimlets, Five Brad Awls, Five Chisels, Three Gouges, Four Files, Oil Stone, Marking Awl, Punch, Two Turnscrows, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Marking Gauge, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, &c.
 No. 6.—68/0 each.—Two Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimlets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Two Punches, Three Turnscrows, Two Spokeshaves, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Marking Gauge, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, &c.
 No. 7.—80/0 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimlets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Two Punches, Three Turnscrows, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Two Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, &c.
 No. 8.—92/6 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimlets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrows, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Chalk Line Reel, Furniture, &c.
 No. 9.—114/6 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimlets, Six Brad Awls, Six Chisels, Four Gouges, Five Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrows, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Chalk Line Reel, Two Mortice Chisels, Coach Wrench, Furniture, &c.
 No. 10.—136/0 each.—Three Saws, Axe, Three Hammers, Mallet, Rule, Pincers, Six Gimlets, Six Brad Awls, Eight Chisels, Four Gouges, Six Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrows, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Coach Wrench, Bevil, Chalk Line Reel, Brace, with 12 Bits; Cutting Nippers, Two Mortice Chisels, Furniture, &c.
 No. 11.—172/0 each.—Three Saws, Axe, Three Hammers, Mallet, Rule, Pincers, Nine Gimlets, Nine Brad Awls, Nine Chisels, Four Gouges, Six Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrows, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Coach Wrench, Chalk Line Reel, Brace, with 18 Bits, Cutting Nippers, Two Mortice Chisels, Saw Set, Spring Dividers, Bench Vice, Furniture, &c.
 No. 12.—216/0 each.—Three Saws, Axe, Four Hammers, Two Mallets, Rule, Pincers, Twelve Gimlets, Twelve Brad Awls, Twelve Chisels, Six Gouges, Nine Files, Oil Stone, Marking Awl, Three Punches, Four Turnscrows, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two Plated Squares, Claw Wrench, Two pairs Pliers, Two pairs Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punches, Scraper, Bevil, Chalk Line Reel, Brace, with 24 Bits; Anvil and Beck Iron, Saw Set, Cutting Nippers, Nipper Pliers, Hand Shears, for cutting metal, &c.; Spring Dividers, Coach Wrench, Cast Steel Chipping Chisel, Spring Oil Can (press bottom), Three Mortice Chisels, Three Socket Chisels, Bench Vice, Turning Saw and Frame, Furniture, &c.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

EMIGRANTS' TOOL CHESTS, FITTED UP WITH TOOLS COMPLETE, OF WARRANTED QUALITY.

Dis- count.	No	No. 1.—£7 14s. Od. each.			
		CONTAINS			
		Best Axe	Five Cast Steel Firmer	Spokeshave	Six Brad Awls
		Best Carpenter's Adze	Chisels	Two London Turnscrews	Carpenter's Mallet
		Pick Axe	Three Cast Steel Firmer	Marking Gauge	Boxed Whetstone
		Carpenter's Hand Saw	Gouges	Improved Brass Slide	Marking Awl
		Ditto Tenon Saw	Three Best Mortice	Mortice Gauge	Brad Punch
		Ditto Compass Saw	Chisels, handled	Best Brace, with 18 Bits	Compasses
		Jack Plane	Three Socket Chisels,	Bench and Roofing	Carpenter's Pincers
		Smooth Plane	handled	Hammer	Glue Pot and Brush
		1 Pair Grooving Planes	Plated Square	Three Files, assorted	Pliers
		Rabbit Plane	Three Augers, handled	Six Cast Steel Gimlets	Chalk Line Reel
		No. 2.—£11 11s. Od. each.			
		CONTAINS			
		Best Axe	Moving Filister Plane	Spokeshave	Two Bench Hammers
		Best Carpenter's Adze	Three London Turn-	Drawing Knife	Roofing Hammer
		Pick Axe	screws	Four Augers, handled	Compasses
		Carpenter's Hand Saw	Six Cast Steel Firmer	Marking Gauge	Five Files, assorted
		Ditto Tenon Saw	Chisels	Brass Slide Mortice	Carpenter's Pincers
		Ditto Compass Saw	Four Cast Steel Firmer	Gauge	Boxed Whetstone
		Jack Plane	Gouges	Glue Pot and Brush	Carpenter's Mallet
		Smooth Plane	Three Best Mortice	Pliers	Spring Oil Can
		Trying Plane	Chisels, handled	Best Brace, with 24 Bits	Marking Awl
		1 Pair Grooving Planes	Four Socket Chisels,	Six Cast Steel Gimlets	Brad Punch
		Rabbit Plane	handled	Six Brad Awls	Chalk Line Reel
		Beard Plane	Plated Square	Coach Wrench	
		No. 3.—£15 7s. 6d. each.			
		CONTAINS			
		Best Axe	Twelve Cast Steel	Marking Gauge	Cutting Nippers
		Best Carpenter's Adze	Firmer Chisels	Cutting Gauge	Bellhanger's Pliers
		Pick Axe	Six Cast Steel Firmer	Best Brace, with 30	Two Pairs Compasses
		Carpenter's Hand Saw	Gouges	Bits	Two Pairs Pliers
		Ditto Tenon Saw	Three Mortice Chisels	Eight Cast Steel Gimlets	Chalk Line Reel
		Ditto Compass Saw	Five Socket Chisels	Eight Brad Awls	Glue Pot and Brush
		Jack Plane	Two Plated Squares	Turning Saw and Frame	Carpenter's Mallet
		Smooth Plane	Two Spokeshaves	Saw Pad and Saw	Boxed Whetstone
		Trying Plane	Drawing Knife	Coach Wrenches	Spring Oil Can
		2 Pairs Grooving Planes	Six Augers, handled	Two Bench Hammers	Marking Awl
		Rabbit Plane	Three London Turn-	Roofing Hammer	Brad Punch
		Plough, with Six Bits	screws	Seven Files, assorted	Hand Vice
		Moving Filister	Improved Brass Slide	Two Pairs Carpenter's	Bench Vice
		Two Bead Planes	Mortice Gauge	Pincers	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

IRON AND TIN PLATE WORKERS' MACHINES.

Dis- count.	No.		No. 1	2	3	
		Burring Machines, or Jenneys	40/0	40/0	66/6	each.
		Ditto ditto for iron work (strong) .....	..	..	85/0	..
		Turn-up, or Wiring Machines	80/0	106/6	..	..
		Each machine complete, with four pairs of wiring and two only closing rolls.				
		Beading or Swaging Machines, with one pair of rollers	40/0	57/0	..	..
		Extra Rollers, per pair, ordinary patterns, 6/6 to 8/0.				
		Cramp Folding Machines, No. 1A, 20 in. long, 112/0; No. 1, 31 in., 147/0; No. 2, 36 in., 187/0; No. 2A, 42 in., 280/0; No. 3, 48 in., 380/0.				
		Folding Machines, 7 ft. 2 in. long, £20.				
			17	20	26	30
		Angle Bending Machines	80/0	160/0	215/0	240/0
		Ditto ditto 48 in., to work by hand or power, £40				300/0
		Ditto ditto 60 in., ditto ditto £48				350/0
						each.
			No. 1	1½	2	3
			17½	20	26	36
						48 inches long.
		Folding Machines, with parallel slide	48/0	54/0	80/0	120/0
		Ditto ditto as No. 4, 32 in., for steam power, £50				188/0
		Tube Rollers, 18 in. long, 1 in. diameter, 87/0; 20 in. long, 1 in. diameter, 105/0				
			No. 1	2	3	4
			25	28	36	48
			1½	1½	2	2½
						3½
						60 inches long.
						.. diam.
		Bending Rollers.....	£4	£5	£7 7s.	£10 14s.
						£28
						£37 10s.
						5
						6
						8 feet long.
						5
						6½
						8 inches diam.
		Bending Rollers, on stronger frames, to work by hand or power	£49 10s.			
		Raising Machines, with crank, £26 15s.				
		Circle Cutting Machines, No. 1, 2½ to 14 in. diameter				
		Ditto ditto No. 2, 3 to 18 ditto				
		Extra cutters for above, per pair, 3/6 and 5/6				
		Ditto ditto No. 3, 5 to 36 in. diameter				
		Ditto ditto No. 4, 5 to 36 ditto				
		Ditto for hand or power, No. 5, 5 to 36 ditto				
		Straight Cutting Circular Shears, or Clipping Engines, for sheet iron:—				
		To cut 1 to 12 in. broad, any length to 16 W.G. thick, by hand				
1A		Ditto 1 to 18 ditto ditto ditto				
1		Ditto 1 to 24 ditto ditto ditto				
2		Ditto 1 to 36 ditto ditto ditto				
2A		Ditto 1 to 18 ditto ditto ½ in. thick, by hand or power				
3		Ditto 1 to 24 ditto ditto ½ ditto ditto				
4		Ditto 1 to 36 ditto ditto ½ ditto ditto				
		Extra cutters for above machines, from 12/0 to 45/0 per pair.				
			12	18	20	30
		Guillotine Shears, for sheet iron	80/0	120/0	127/0	215/0
						each.
				20	30	36
						inches long.
		Squaring Shears, for cutting sheet metals.....	174/0	287/0	400/0	each.
1		Bath Beading Machine, with 1 pair rollers, 84/0; extra rollers, per pair, 10/6				
2		Ditto ditto with 5 patterns, £11 5s.				
			No. 1	2	3	4
			18	24	30	38
						inches long.
		Grooving Machines	67/0	87/0	160/0	268/0
		Panning Down Machines	45/6	67/0	..	..
		Bottom Closing Machines, 10 in. deep, 47/0; 15 in. deep, 67/0				
			No. 1	2	3	4
		Eccentric Punching Machines, to punch 5 in. from edge.....	94/0	147/0	..	..
		Ditto ditto ditto 12 and 15 in. respectively ....	..	..	175/0	215/0
						each.
			No. 1	2	3	4
			8	12	18	24
						inches.
		Between puppets, 6				
		Weight, ..	10	20	30	cwt.
		Stamping Press.....	£8	£21 7s. 6d.	£32	£45 10s.
						each.

ENGINEER, MACHINIST, TOOL MAKER, & GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TINMEN'S, BRAZIER'S, AND COPPERSMITHS' TOOLS.

Dis- count.	No.		£ s. d.	
		Solid Cast Steel Anvils	0 2 6 per lb.	
		Iron and Steel Faced ditto	0 1 8 "	
		Solid Cast Steel Bottom Stakes	0 2 6 "	
		Iron and Steel Faced ditto	0 1 8 "	
		Solid Cast Steel Round Bottom Stakes	0 2 6 "	
		Iron and Steel Faced ditto	0 1 8 "	
		Half-moon Stakes	0 1 8 "	
		Hatchet Stakes	0 1 2 "	
		Anvil Stakes	0 1 6 "	
		Funnel Stakes, wrought iron	0 1 4 "	
		Ditto cast iron	0 0 6 "	
		Side Stakes, wrought iron	0 1 3 "	
		Ditto cast iron	0 0 6 "	
		Pipe Stakes, wrought iron	0 1 3 "	
		Ditto cast iron	0 0 6 "	
		Extinguisher Stakes	0 1 4 "	
		Saucepan Belly Stakes	0 1 4 "	
		Grooving Stakes.....	0 2 0 "	
		STEEL FACED.	SOLID CAST STEEL.	
		£ s. d.	£ s. d.	
		Block Hammers	0 1 9	0 2 6 per lb.
		Planishing ditto	0 1 9	0 2 6 "
		Flat ditto	0 1 9	0 2 6 "
		Convex ditto	0 1 9	0 2 6 "
		Concave, 1 lb. and under .....	.. ..	0 3 0 "
		Creasing and Paning Hammers.....	0 1 9	0 2 6 "
		Rivetting ditto	0 1 9	0 2 6 "
		Smoothing ditto	0 1 9	0 2 6 "
		Hollowing ditto	0 1 9	0 2 6 "
		Square Faced ditto 1 lb. and under	0 1 9	0 2 6 "
		Tea Kettle Heads—round, long, and oval	0 1 6	0 2 6 "
		Pepper or Flour Box, or Teapot Top Head.....	0 1 8	0 2 6 "
		Teapot Neck Tools	0 1 6	0 2 6 "
		Creasing Irons	0 1 9	0 2 6 "
		Tinmen's Beck Irons, small	0 1 6 "
		Ditto ditto above 60 lbs.	0 1 3 "
		Ditto ditto cast iron.....	0 0 6 "
		Hollow Punches, per set of 12, 44/0		
			3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 1 1/2 1 3/4 1 1/2 2 inch.	
		Hollow Punches ..	2/0 2/4 2/8 3/0 3/4 3/8 4/0 4/4 4/8 5/4 5/9 6/0 6/6 7/0 each.	
		Groove Punches, 2/4 to 6/0 each.		
		Rivet Sets, 2/0 to 4/8 each.		
		Kettle Lid Swages, 24/0 each.		
		Soldering Gibbets, 40/0 each.		
		Studd Boss and Two Punches, 16/0 per set.		
		Follies, 1/4 per lb.; Copper Soldering Bits, 1/10 per lb.		
		Soldering and Bossing Irons, 10d. per lb.		
		Tinmen's and Braziers' Horses, 1/4 per lb.		

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

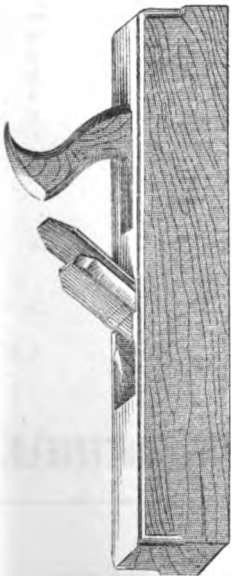
EDWARD BROOKES.

PLANES.

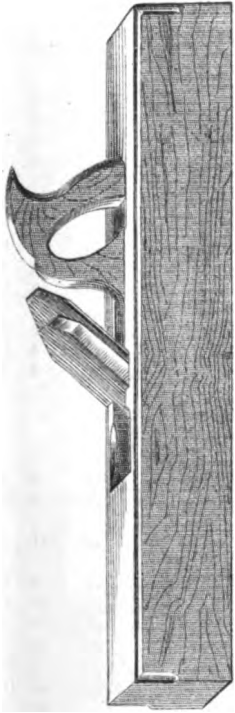
Dis- count.	No.		CAST STEEL NUTTED IRONS.		
			SINGLE. s. d.	DOUBLE. s. d.	NUTTED IRONS. s. d.
	866	Smoothing, to 2 in.	2 6	3 3	3 9
		Ditto 2½ in.	2 8	3 6	4 0
		Ditto 2½ in.	2 10	3 9	4 3
		Ditto 2½ in. ....	..	4 3	4 9
		Ditto 2½ in. ....	..	4 9	5 3
	866A	Ditto Mast Plane	4 9	6 6	7 3
	867	Jack, 14 to 17 in., to 2 in.	3 6	4 3	4 9
		Ditto ditto 2½ in.	3 8	4 6	5 0
		Ditto ditto 2½ in.	8 10	4 9	5 3
		Ditto ditto 2½ in. ....	..	5 6	6 0
		Ditto ditto 2½ in. ....	..	5 9	6 6
	868	Panel ....	..	5 9	6 6
	869	Ditto, slipped ....	..	6 9	7 6
	870	Trying, to 22 in.	5 6	6 3	6 9
	871	Long ditto 24 in.	5 9	6 6	7 0
	872	Ditto 26 in.	6 3	7 0	7 6
	872A	Ditto 28 in.	6 9	7 6	8 0
	872B	Ditto 30 in.	7 3	8 0	8 6
	873	Jointers, 28 in.	6 9	7 6	8 0
	874	Ditto 30 in.	7 3	8 0	8 6
	875	Compass Smoothing ditto, 2 in.	2 10	3 10	4 3
	875A	Ditto ditto 2½ in.	3 0	4 2	4 6
	876	Toothing, coarse or fine, to 2 in.	3 3	..	..
	877	Ditto two irons, ditto (Every ½ in. extra, one iron, 3d.; two irons, 6d.)	4 3	..	..
	878	Fork Staff Smoothing, to 2 in.	4 0	5 6	6 0
	878A	Ditto ditto 2½ in.	4 6	6 0	6 6
	878B	Ditto ditto 2½ in.	5 0	6 6	7 0
	879	Spout	5 0	7 6	8 6
	880	Smoothing Raising	4 3	7 0	7 6
	881	Jack ditto	6 6	8 6	9 0
	882	Gent's Smoothing	2 3	..	..
	883	Ditto Jack	2 10	..	..
	884	Coopers' Jointers ....	..	..	..
		Square Brass Nuts to Common Double Irons, 0/3 extra.			
		Planes, with hardened top irons, 0/4 extra.			
		Ditto with solid nutted top irons, 0/3 extra.			
A					
	885	Astragals, to ½ in.			2 4
		Every ½ in. extra, 0/3 to 1 in.; above 1 in., 0/4 per ½ in. extra.			
	886	Astragals and Hollow Sash Templets, boxed, per pair			8 0
	887	Astragals and Hollow Sashes, two irons, to stick and rabbet, per pair			8 0
	888	Astragals, with Templets extra ditto			9 6
	889	Lamb's Tongue Sashes and Templets, per pair			8 0
B					
	890	Beads, boxed, to ½ in., 2/6; ¾ in., 2/9; 1 in., 3/0; 1 in., 3/3			
	891	Ditto slipped, to ½ in., 3/0; ¾ in., 3/3; 1 in., 3/6; 1 in., 3/9			
	892	To answer for Bead and Torus, to ½ in., 3/6; ¾ in., 3/9; 1 in., 4/0; 1 in., 4/4			
	893	Cock Beads, boxed, to ½ in., 2/6			
	894	Double Cock Beads, 4/3			
	895	Chair Feet, 3/0			
	896	Beads, double boxed, to ½ in., 3/0; ¾ in., 3/3; 1 in., 3/6; 1 in., 3/9; above 1 in., 0/4 per ½ in. extra.			
	896A	Centre Beads, ½ in., 3/6; ¾ in., 3/9; 1 in., 4/0; 1 in., 4/4			
		8 9 10 to the set.			
		Sets of Beads 21/0 24/6 27/6			
		Ditto if slipped 25/6 29/0 32/6			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

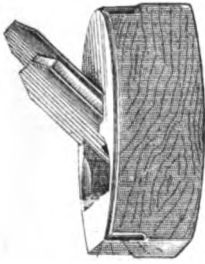
EDWARD BROOKES.



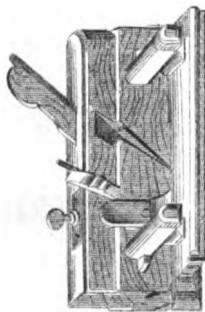
867 Jack Plane



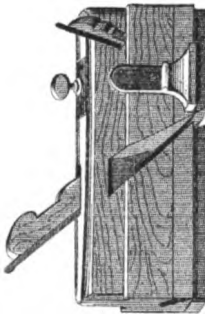
870 Trying Plane



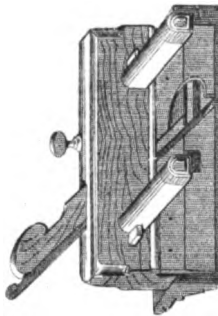
868 Smoothing Plane



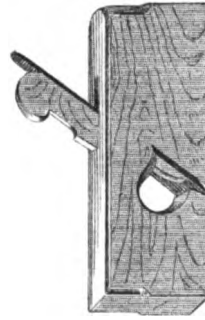
906 Saw Filler Plane



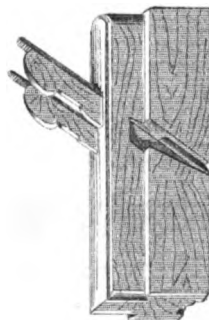
900 Moving Filler Plane



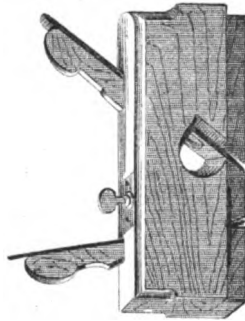
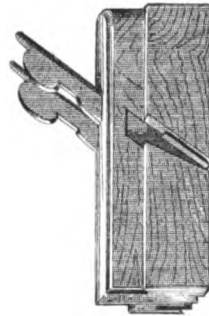
946 Plough Plane



961 Rabbit Plane



933 Ovolo Sash Plane

925 Dado Grooving or
Trenching Plane

910 Pair Grooving Planes



Saddle Template



Side Template

THE ILLUSTRATED SHEFFIELD LIST.

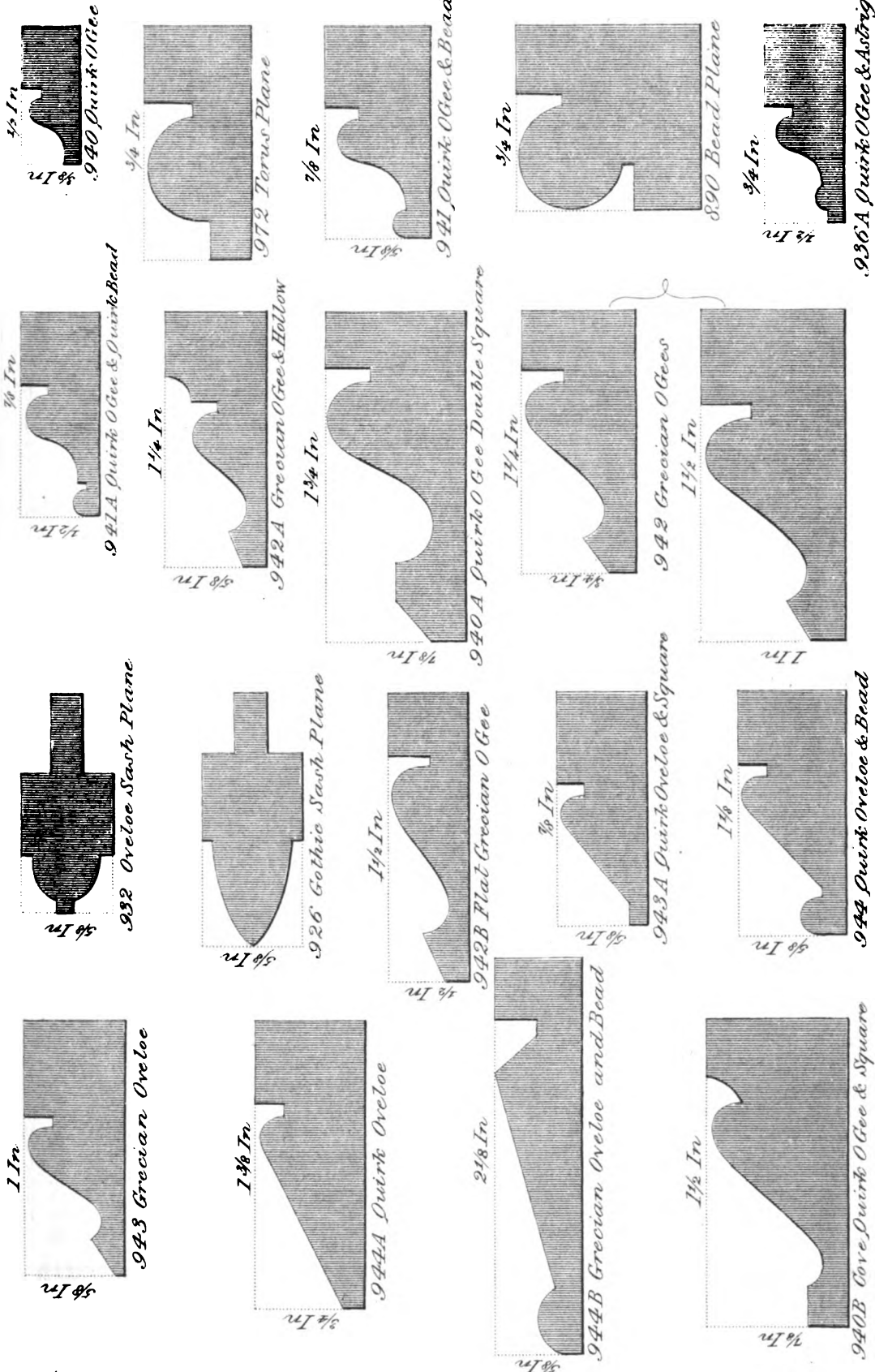
EDWARD BROOKES.

PLANES.—Continued.

Dis- count.	No.		
		C	
	897	Cove and Bead, to 1 in. (with Double Fillet, 3/10)	s. d. 3 3
	898	Cornice, per in.	3 4
	898A	Chair Splat Plane	4 10
	898B	Cylinder Plane, boxed	3 9
		F	
	899	Fluting Plane	3 0
	899A	Standing Filister	2 4
	900	Moving Filister	4 6
	901	Ditto ditto brass slip stop and tooth	6 6
	902	Ditto ditto brass screw stop and forked tooth	10 0
	903	Ditto ditto with improved fence	10 9
	903A	Ditto ditto dovetail boxed	14 6
	904	Sash Filister, wood stop	6 6
	905	Ditto ditto box screw top	9 6
	906	Ditto ditto and capped stems	12 0
	907	Ditto ditto left handed shoulder, boxed, forked tooth, and improved stop	18 0
	907A	Ditto ditto dovetail, boxed	21 0
	908	Cock Bead Filister	4 0
	909	Moving or Sash Filister, dovetailed, boxed, extra	3 3
		G	
	910	Grooving Planes, for slit deal, to $\frac{3}{4}$ in. size, per pair	5 6
	911	Ditto ditto $\frac{3}{4}$ in. ditto	5 10
		Every $\frac{1}{8}$ extra, per pair, 6d.	
	912	Long Grooving, with handles, $1\frac{1}{2}$ and $1\frac{1}{2}$ in.	10 0
		For every extra $\frac{1}{8}$, per pair, 1s.	
	913	Grooving Planes, $\frac{1}{2}$ in., plated back fence	8 0
	914	Ditto ditto $\frac{3}{4}$ in., plated face and fence	10 0
	915	Ditto ditto $\frac{3}{4}$ and $\frac{1}{2}$ in., plated back fence	8 3
	916	Ditto ditto $\frac{3}{4}$ and $\frac{1}{2}$ in., plated face and fence	10 3
	917	Ditto ditto $\frac{3}{4}$ and 1 in., plated back fence	8 10
	918	Ditto ditto $\frac{1}{2}$ and 1 in., plated face and fence	10 10
	919	Ditto ditto $1\frac{1}{2}$ and $1\frac{1}{2}$ in., plated back fence	13 6
	920	Ditto ditto $1\frac{1}{2}$ and $1\frac{1}{2}$ in., plated face and fence	14 6
	921	Moving Grooving, with 3 pairs of irons	14 0
	922	Ditto ditto plated face and fence	17 0
	923	Ditto ditto with handles	10 6
	924	Dado, or Carcase Grooving, wood stock	4 6
	925	Ditto ditto screw top	6 6
	926	Gothic Sash and Templets	8 6
	927	Grooving, for drawer bottom	3 0
	927A	Gothic, to stick and rabbet, with 2 irons	8 0
	927B	Ditto ditto with Templets	9 6
		H	
	928	Hollows and Rounds, to $1\frac{1}{2}$ in., or No. 15, (every $\frac{1}{8}$ in. above, 4/0) per pair	4 4
		Hand-rail Planes, according to pattern and number to set.	
		Half set ditto, 9 pairs, 40/0; full set ditto, 18 pairs, 80/0	
	929	Table Planes, per pair	4 6
		Gauges for ditto, 6d. each.	
		Hollows and Rounds, skew mouth, to $1\frac{1}{2}$ in., or No. 15, per pair	4 10
		Ditto ditto ditto extra every $\frac{1}{8}$ in., 4d.	
		Half set ditto, 9 pairs, 44/6; full set, 18 pairs, 89/0	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANES.—Continued.

Dis- count.	No.		
		N	
	980	Necking to 1 in.	s. d. 3 2
	981	Nosing to 1 in.	3 4
		Every $\frac{1}{2}$ extra, 4d.	
		O	
	982	Oveloe Sash and Templets, per pair	7 0
	983	Ditto with two mouths	6 0
	984	Ditto with Templets, extra	1 6
	984A	Gothic Sash and Templets	8 0
	984B	Lamb Tongue Sash and Templets, per pair	8 0
	984C	Oveloe Sash Planes, to stick and rabbet, with two irons	6 0
	984D	Ditto ditto ditto with Templets	7 6
	985	Common Oveloe or Ogee, to $\frac{1}{2}$ in.	2 4
	985A	Common Ogee, to $\frac{1}{2}$ in.	2 4
		Every $\frac{1}{2}$ extra, 3d. to 1 in.; above, 4d. per $\frac{1}{2}$ in.	
	986	Quirk Oveloe or Ogee, to 1 in.	3 6
		Every $\frac{1}{2}$ extra, 4d.	
	986A	Quirk Ogee and Astragal, to 1 in.	4 0
	987	Back Ogee, to $\frac{1}{2}$ in.	3 0
	988	Ditto and Double Square	3 6
	989	Ditto and Beaded Boxed, to 1 in.	4 0
	990	Quirk Ogee, alipped, to 1 in.	3 10
	990A	Ditto and Double Squares	4 6
	990B	Cove Quirk Ogee and Square	7 0
	991	Ditto ditto and Cock Bead, to 1 in.	4 0
	991A	Ditto ditto and Quirk Bead	4 6
	992	Grecian Ogee, to 1 in.	4 0
	992A	Ditto and Hollow	4 6
	992B	Flat Grecian Ogee	4 0
	993	Grecian Oveloe, to 1 in.	4 0
		Ditto Doubled Boxed, extra	0 4
	993A	Quirk Oveloe and Square, to 1 in.	3 6
		Every $\frac{1}{2}$ extra, to 2 in., 4d. per $\frac{1}{2}$; 2 in. and upwards, 6d. per $\frac{1}{2}$ extra.	
	994	Quirk Oveloe and Bead, to 1 in.	4 0
	994A	Ditto to 1 in.	3 6
		Every $\frac{1}{2}$ extra, 4d.	
	994B	Grecian Oveloe and Bead	6 6
	995	Old Woman's Tooth	2 9
		P	
	996	Plough Planes, single plate, one iron	7 0
	997	Ditto double plate, one iron	7 6
	998	Ditto ditto three irons, wood stop	8 6
	999	Ditto ditto six irons, ditto	10 6
	990	Ditto ditto eight irons, screw top	15 0
	991	Ditto ditto ditto and capped stems	16 0
	992	Ditto with bright irons and capped stems	17 6
	993	Best Ploughs, with extra work on fence	19 6
	994	Improved Stop ditto	21 0
	995	Screw Stems ditto	23 0
	995A	Ditto ditto box screw stems	27 0
	995B	Ditto with ivory scale stems	29 0
	996	Ploughs, to work straight or circular	40 0
	996A	Best Ploughs, improved stop, with handles	33 0
	996B	Ditto ditto and screw stems	35 0
	996C	Ditto ditto and box stems	37 0

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PLANES.—Continued.

Dis- count.	No.		
		R	s. d.
	957	Reed Planes, fenced to work more reeds	5 0
	958	Reed Planes, single reeds, 3/4 ; 2 reeds, 8/6 ; 3 reeds, 4/6 ; 4 reeds	6 0
	959	Side Rabbet, per pair	5 6
	960	Side Round, per pair	4 8
	961	Square Rabbet, to 1½ in.	2 6
		For every ½ in., 2d. extra.	
	962	Skew Rabbet, to 1½ in. ditto ditto. each	2 6
		Boxed edges, skew or square, double price	
		S	
	963	Snipe Bill, per pair	5 6
	964	Ditto shoulder boxed, per pair	8 0
	965	Side Snipe, per pair	7 6
	965A	Ditto shoulder boxed, per pair	10 0
	966	Spring Planes	5 0
	967	Coopers' Crozes, to 16 in.	5 6
	968	Ditto Shaves	3 0
	969	Ditto Brace, wood pad	3 0
	970	Brushmakers' Brace, with spring	3 0
	971	Sun Planes	6s. 0d. 7 6
		T	
	972	Torus Planes, to ½ in.	3 0
		Every ½ extra, 8d.	

PLUMBERS' SHAVE HOOKS, WITH HARDWOOD HANDLES.

Triangle, or Heart Pattern	14/6 per doz.
Ditto ditto Blades only	5/0 „

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SKATES.

Dis- count.	No.		8½	9	9½	10	10½	11	11½	ins.
	682	Common Skates, plain	2/9	3/0	3/3	3/6	3/9	4/0	4/6	per pair.
	683	Ditto fluted	3/3	3/6	3/9	4/0	4/3	4/6	4/9	"
	684	Middle Sort Skates, steel, plain	3/6	3/10	4/0	4/6	5/0	5/8	6/0	"
	685	Ditto ditto fluted	4/0	4/6	4/9	5/0	5/6	6/3	7/0	"
	686	Better Sort Skates, white wood, plain ..	..	..	..	5/6	6/0	6/6	7/0	"
	687	Ditto ditto fluted ..	..	..	..	..	7/0	7/6	8/0	"
	688	Ditto coloured wood, plain ..	..	..	..	..	6/6	7/0	7/6	"
	689	Ditto ditto fluted ..	..	..	..	..	8/6	9/0	9/6	"
	690	Best Sort Skates, white wood, plain .....	..	..	..	..	..	8/6	9/0	"
	691	Ditto ditto fluted ..	..	..	..	..	..	9/6	10/0	"
	692	Ditto coloured wood, plain ..	..	..	..	..	..	9/6	10/0	"
	693	Ditto ditto fluted ..	..	..	..	..	..	10/6	11/0	"
	694	Ditto inlaid, plain .....	..	..	..	..	..	11/6	12/0	"
	695	Ditto ditto fluted .....	..	..	..	..	..	13/0	13/6	"
	696	Ditto inlaid with star, plain ..	..	..	..	..	..	14/6	15/0	"
	697	Ditto ditto fluted ..	..	..	..	..	..	16/6	17/0	"
	698	Ditto London pattern, plain, polished woods ..	..	..	..	..	..	9/6	10/0	"
	699	Ditto ditto fluted, ditto ..	..	..	..	..	..	11/0	11/6	"
	700	Improved Best Sort Skates, London Club, plain, polished woods ..	..	..	..	..	..	11/0	11/6	"
	701	Improved Patent Spring Skates, strapped, complete ..	..	..	..	..	..	17/0	18/0	"
		Boys' Straps, 1/9; Men's, 2/3; Best, 3/0								
		Forbes' Acme Patent Self-adjusting Skates,								per pair.

JOINERS' TOOLS.

In consequence of considerable advances both in wages and materials, it was unanimously resolved at a general meeting of Joiners' Tool Manufacturers, held at the Cutlers' Hall, Sheffield, on the 25th June, 1873, that the following List of Prices be adopted by the Trade from the first of July, 1873.

N.B.—Throughout this list French Measures are computed as under:—

Inches	¾	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3½	4	4½	5	5½	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lignes	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Inches	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Lignes	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

SQUARES.

		3	4½	6	7½	9	10½	12	15	18	21	24	30	ins.
702	Diamond Plated Squares....	17/0	19/6	23/6	28/6	33/6	39/0	44/0	58/0	74/0	96/0	120/0	..	doz.
703	Rosewood Best Plated Squares	20/6	22/6	26/0	32/0	38/0	43/0	50/0	68/0	84/0	108/0	132/0	..	"
703A	Ebony ditto ditto	22/0	24/0	28/0	34/0	40/0	46/0	54/0	74/0	90/0	..	..	..	"
703B	Rosewood Double Plated ditto	30/9	33/9	39/0	48/0	57/0	64/6	75/0	102/0	126/0	..	..	..	"
704	Ditto Best Plated ditto with levels ..	..	..	..	..	78/0	84/0	90/0	108/0	126/0	140/0	160/0	..	"
705	Ditto T Drawing ditto ..	..	..	..	..	..	80/0	94/0	112/0	132/0	154/0	180/0	..	"
706	Ditto London Pattern Bricklayers' Squares, 36/0 per doz.													

	2½	3	3½	4	4½	5	5½	6	ins.
707	Brass Stocked Sash Squares	18/0	19/0	20/0	21/6	23/0	25/0	27/0	30/0 per doz.
707A	Engineers' and Coachmakers' Squares	27/6	28/6	32/0	33/0	34/0	41/6	42/6	43/6 "

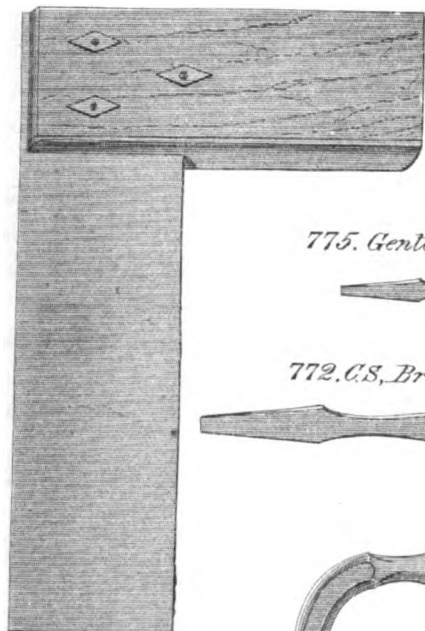
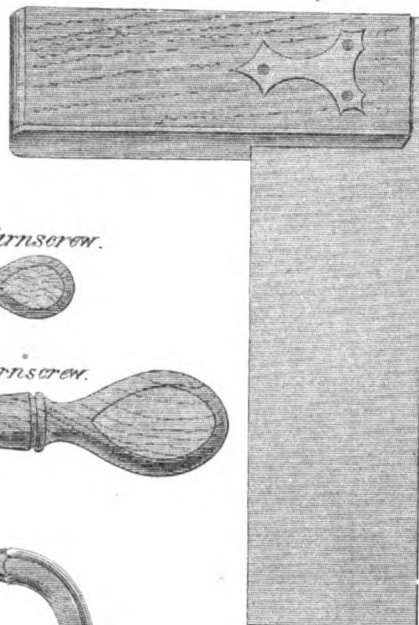
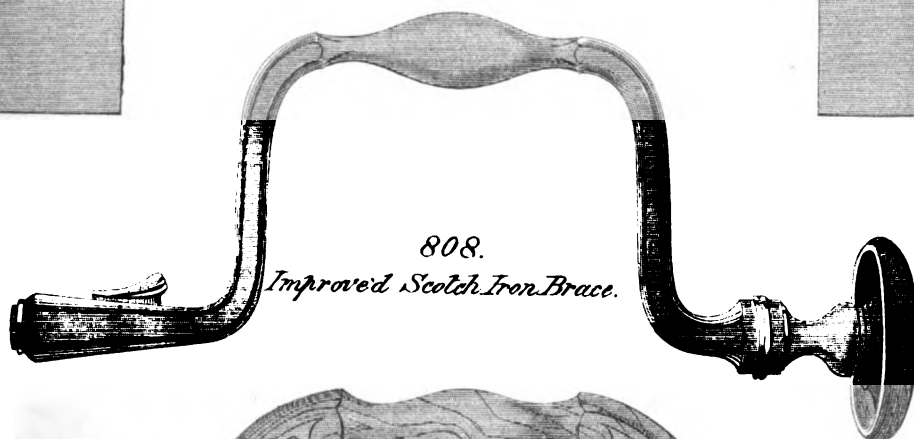
MITRE SQUARES.

	8	10	12	14	16	ins.
708	Plated Mitre Squares	34/0	40/0	46/0	55/0	64/0 per doz.
709	Rosewood Best Plated Mitre Squares	50/0	58/0	66/0	77/0	88/0 "
709A	Ebony ditto ditto	52/0	60/0	70/0	80/0	92/0 "

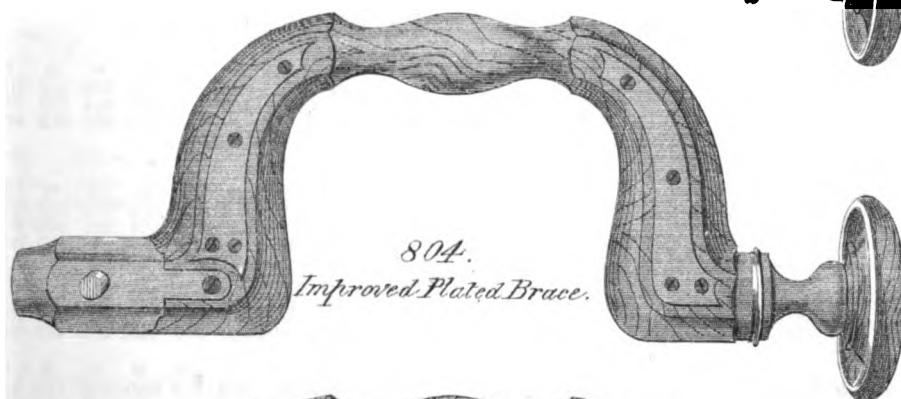
TURNSCREWS.

771	Cast Steel Black London Pattern Turnscrows, with beechwood handles let in strong brass ferrules :—	3	4	5	6	7	8	9	10	11	12	14	15	16	18	ins.
		8/0	9/6	11/0	13/0	16/0	18/6	21/0	25/6	29/0	33/0	41/0	45/0	49/0	58/0 per doz.	
772	Cast Steel Bright London Pattern Turnscrows, with beechwood handles let in strong brass ferrules :—	3	4	5	6	7	8	9	10	11	12	14	15	16	18	ins.
		8/0	9/6	11/0	13/0	16/0	18/6	21/0	25/6	29/0	33/0	41/0	45/0	49/0	58/0 per doz.	
773	Cast Steel Bright London Pattern Turnscrows, with boxwood handles :—	3	4	5	6	7	8	9	10	11	12	14	15	16	18	ins.
		12/0	15/0	18/0	21/0	24/0	28/0	32/0	36/0	41/0	46/0 per doz.					
773A	Cast Steel Bright London Pattern Turnscrows, with ebony handles :—	3	4	5	6	7	8	9	10	11	12	14	15	16	18	ins.
		14/0	17/0	20/0	23/0	27/0	31/0	35/0	40/0	45/0	50/0 per doz.					

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*702. Plated Square.**703. Best Plated Square.**775. Gentleman's Fancy Turniscrew.**772. C.S., Bright London Turniscrew.*

808.

Improved Scotch Iron Brace.

804.

Improved Plated Brace.

800.

*Best Brace.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TURNSCREWS.—Continued.

Dis- count.	No.	
	773b	Cast Steel Bright London Pattern Turnscrows, with worked oval beech handles :— 3 4 5 6 7 8 9 10 11 12 ins. 11/0 13/0 14/6 17/0 21/0 24/6 28/0 33/3 37/0 41/0 per doz.
	774	Cast Steel Bright London Pattern Turnscrows, with worked oval boxwood handles :— 3 4 5 6 7 8 9 10 11 12 ins. 15/6 17/6 21/0 25/0 29/0 34/0 39/0 44/0 49/0 54/0 per doz.
	774A	Cast Steel Bright London Pattern Turnscrows, with worked oval ebony handles :— 3 4 5 6 7 8 9 10 11 12 ins. 17/6 19/6 23/0 27/0 32/0 37/0 42/0 48/0 53/0 58/0 per doz.
	774B	Cast Steel London Pattern Cabinet Turnscrows, with beechwood handles :— 3 4 5 6 7 8 9 10 11 12 ins. 9/6 11/0 13/0 16/0 18/6 21/0 25/6 29/0 33/0 38/0 per doz.
	774C	Cast Steel London Pattern Cabinet Turnscrows, with boxwood handles :— 3 4 5 6 7 8 9 10 11 12 ins. 13/6 16/6 20/0 24/0 26/6 30/6 36/6 40/6 45/0 51/0 per doz.
	774D	Cast Steel London Pattern Cabinet Turnscrows, with ebony handles :— 3 4 5 6 7 8 9 10 11 12 ins. 15/6 18/6 22/0 26/0 29/6 33/6 39/6 44/6 49/0 55/0 per doz.
	774E	Cast Steel London Pattern Cabinet Turnscrows, with worked oval beechwood handles :— 3 4 5 6 7 8 9 10 11 12 ins. 12/6 14/6 16/6 20/0 23/6 27/0 32/6 36/9 41/0 46/0 per doz.
	774F	Cast Steel London Pattern Cabinet Turnscrows, with worked oval boxwood handles :— 3 4 5 6 7 8 9 10 11 12 ins. 16/6 20/0 23/6 28/0 31/6 36/6 43/6 48/0 53/0 59/0 per doz.
	774G	Cast Steel London Pattern Cabinet Turnscrows, with worked oval ebony handles :— 3 4 5 6 7 8 9 10 11 12 ins. 18/6 22/0 25/6 30/0 34/6 39/6 46/6 52/0 57/0 63/0 per doz.
	775	Cast Steel Bright London Pattern Gentlemen's Fancy Turnscrows, in hard wood handles, assorted, 2½ to 4 in., 7/0 per doz.; all 4 in., 9/0 per doz. Polished Beechwood London Pattern Turnscrow Handles, slit and bored :— 3 4 5 6 7 8 9 10 11 12 ins. 3/0 4/0 5/0 6/0 7/0 8/0 9/0 10/0 11/0 12/0 per doz.
BEST BRACES, WITH BITS COMPLETE.		
800		LIGNUM HEAD BEST PLAIN BRACES, polished, 9/0 each. With 12 18 24 30 36 42 48 54 60 Bits.
801		Cast Steel Black Bits, sharpened, and bright insides 14/8 17/6 20/4 23/4 27/0 29/6 33/0 36/6 40/0 each.
802		Ditto Bright Bits 15/3 18/4 21/6 24/9 28/0 31/7 35/4 39/2 42/10 "
803		Ditto Straw Coloured Bits 15/11 19/4 22/10 26/5 30/0 33/11 38/0 42/2 46/2 "
		If with Improved Ebony Head and Brass Neck, 2/0 each extra to Lignum Heads. If with all Ebony Head, 1/0 each extra to Lignum Heads.
804		LIGNUM HEAD IMPROVED PLATED BRACES, polished, 13/0 each. With 12 18 24 30 36 42 48 54 60 Bits.
805		Cast Steel Black Bits, sharpened, and bright insides 18/8 21/6 24/4 27/4 31/0 33/6 37/0 40/6 44/0 each.
805A		Ditto Bright Bits 19/3 22/4 25/6 28/9 32/0 35/7 39/4 43/2 46/10 "
805B		Ditto Straw Coloured Bits 19/11 23/4 26/10 30/5 34/9 37/11 42/0 46/2 50/2 "
806		IMPROVED PLATED BRACES, polished, with improved brass necks, 15/0 each. With 12 18 24 30 36 42 48 54 60 Bits.
807		Cast Steel Black Bits, sharpened, and bright insides 20/8 23/6 26/4 29/4 33/0 35/6 39/0 42/6 46/0 each.
807A		Ditto Bright Bits 21/3 24/4 27/6 30/9 34/9 37/7 41/4 45/2 48/10 "
807B		Ditto Straw Coloured Bits 21/11 25/4 28/10 32/5 36/9 39/11 44/0 48/2 52/2 "
808		LIGNUM HEAD IMPROVED SCOTCH IRON BRACES, 14/0 each. With 12 18 24 30 36 42 48 54 60 Bits.
809		Cast Steel Black Bits, sharpened, and bright insides 18/10 21/6 24/9 27/9 31/9 34/0 37/9 41/6 45/0 each.
810		Ditto Bright Bits 19/5 22/7 25/11 29/2 33/6 36/1 40/1 44/2 47/10 "
811		Ditto Straw Coloured Bits 20/1 23/7 27/3 30/10 35/6 38/5 42/9 47/2 51/2 "
811A		IMPROVED SCOTCH IRON BRACES, with improved brass necks, 16/0 each. With 12 18 24 30 36 42 48 54 60 Bits.
811B		Cast Steel Black Bits, sharpened, and bright insides 20/10 23/9 26/9 29/9 33/9 36/0 39/9 43/6 47/0 each.
811C		Ditto Bright Bits 21/5 24/7 27/11 31/2 35/6 38/1 42/1 46/2 49/10 "
811D		Ditto Straw Coloured Bits 22/1 25/7 29/3 32/10 37/6 40/5 44/9 49/2 53/2 "
		Best Lignum Vitæ Brace Heads 24/0 per doz. Solid Ebony Brace Heads 36/0 " Improved Brace Heads, all brass 43/0 " Ditto brass necks, ebony caps 48/0 " Best Brass Pads 30/0 " Brace Collar for Sash Bits 1/6 per pair. Boxwood or Rosewood Braces, 12/0 each extra to Plated Beech Braces. Ebony ditto 16/0 ditto ditto

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

JOINERS' TOOLS.—Continued.

Dis- count.	N ^o .		BEVILS.					
			7½	9	10½	12	15	inches.
	710	Plated T Bevils	24/0	26/0	28/0	30/0	38/0	per doz.
	711	Best ditto	28/0	32/0	36/0	40/0	46/0	"
	712	Rosewood Improved Sliding Bevils	32/0	36/0	40/0	44/0	56/0	"
	712A	Ebony ditto	33/0	37/0	41/0	45/0	57/0	"
	713	Plated Angle Bevils	28/0	30/0	33/0	36/0	..	"
	714	Best ditto	34/0	38/0	42/0	46/0	..	"
		If with Brass Headed Thumb Screws, 5/0 per doz. extra.						
	715	Rosewood London Pattern Bricklayers' Bevils, 3½/0 per doz.						

BOAT BUILDERS' BEVILS.

716	Boat Builders' Bevils, 12 in., two brass blades, common.....	16/0	per doz.
717	Ditto ditto ditto rosewood, plated	20/0	"
718	Ditto ditto ditto boxwood, rule marked.....	20/0	"

BEECHWOOD SPOKESHAVES, WITH CAST STEEL IRON.

		To 2½	3	3½	4	4½	5	5½	6	inches.
719	Beechwood Spokeshaves.....	12/0	14/0	16/0	18/0	24/0	30/0	36/0	42/0	per doz.
719A	Ditto round faced, round back irons..	18/0	..	..	..	..	..	..	..	"
720	Ditto plated	16/0	18/0	21/0	25/0	30/0	35/0	42/0	48/0	"
720A	Ditto do. round faced, round back irons	17/0	..	..	..	..	..	..	..	"
721	Ditto do. with ivory.....	23/0	26/0	31/0	..	..	..	..	..	"
722	Ditto wheelers' or coachmakers'	16/0	18/0	20/0	24/0	28/0	32/0	36/0	40/0	"
723	Ditto plated screw iron	34/0	38/0	42/0	48/0	54/0	62/0	72/0	84/0	"
724	Ditto London pattern	17/0	21/0	25/0	30/0	..	..	..	..	"
725	Ditto ditto wheelers' or coachmakers'	22/0	26/0	30/0	34/0	38/0	42/0	..	..	"
726	Ditto coopers' shaves, with best iron..	..	..	..	34/0	36/0	38/0	44/0	50/0	"
727	Ditto ditto bent, or inside..	..	..	..	46/0	48/0	50/0	56/0	62/0	"
	Ditto, ditto, if boxed in, 5/0 per doz. extra to 5 in.; all above, 8/0 per doz. extra.									

BOXWOOD SPOKESHAVES, WITH CAST STEEL IRONS.

		To 2½	3	3½	4	4½	inches.
728	Boxwood Spokeshaves	18/0	20/0	24/0	28/0	36/0	per doz.
728A	Ditto round faced, and round back irons	19/0	..	..	..	..	"
729	Ditto plated	24/0	27/0	30/0	36/0	46/0	"
729A	Ditto ditto round faced, and round back irons	25/0	..	..	..	..	"
730	Ditto ditto with ivory.....	30/0	35/0	42/0	51/0	..	"
731	Ditto plain screw irons.....	40/0	44/0	50/0	62/0	..	"
732	Ditto plated ditto	45/0	50/0	56/0	70/0	..	"
733	Ditto London pattern	21/0	26/0	32/0	38/0	..	"
734	Ditto wheelers' or coachmakers'.....	28/0	32/0	38/0	44/0	50/0	"

EBONY OR ROSEWOOD SPOKESHAVES, WITH CAST STEEL IRONS.

		To 2½	3	3½	inches.
735	Rosewood Spokeshaves	21/0	24/0	30/0	per doz.
735A	Ebony ditto	30/0	34/0	42/0	"
736	Rosewood ditto London pattern.....	24/0	29/0	34/0	"
736A	Ebony ditto ditto	33/0	39/0	48/0	"

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

JOINERS' TOOLS.—Continued.

CAST STEEL SPOKESHAVE IRONS.

Dis- count.	No.		To 2½	3	3½	4	4½	5	5½	6	inches.
	737	Cast Steel Joiners' Spokeshave Irons	5/3	5/9	6/6	7/6	9/0	10/6	12/0	15/0	per doz.
	738	Ditto ditto London pattern	6/6	7/0	8/0	9/0	..	..	..	..	..
	739	Ditto ditto ditto	9/0	10/0	12/0	15/0	18/0	..	..	..	..
	741	Best Coopers' Shave Irons .....	..	..	..	12/0	13/0	14/0	16/0	20/0	..

TURNING SAWS AND FRAMES.

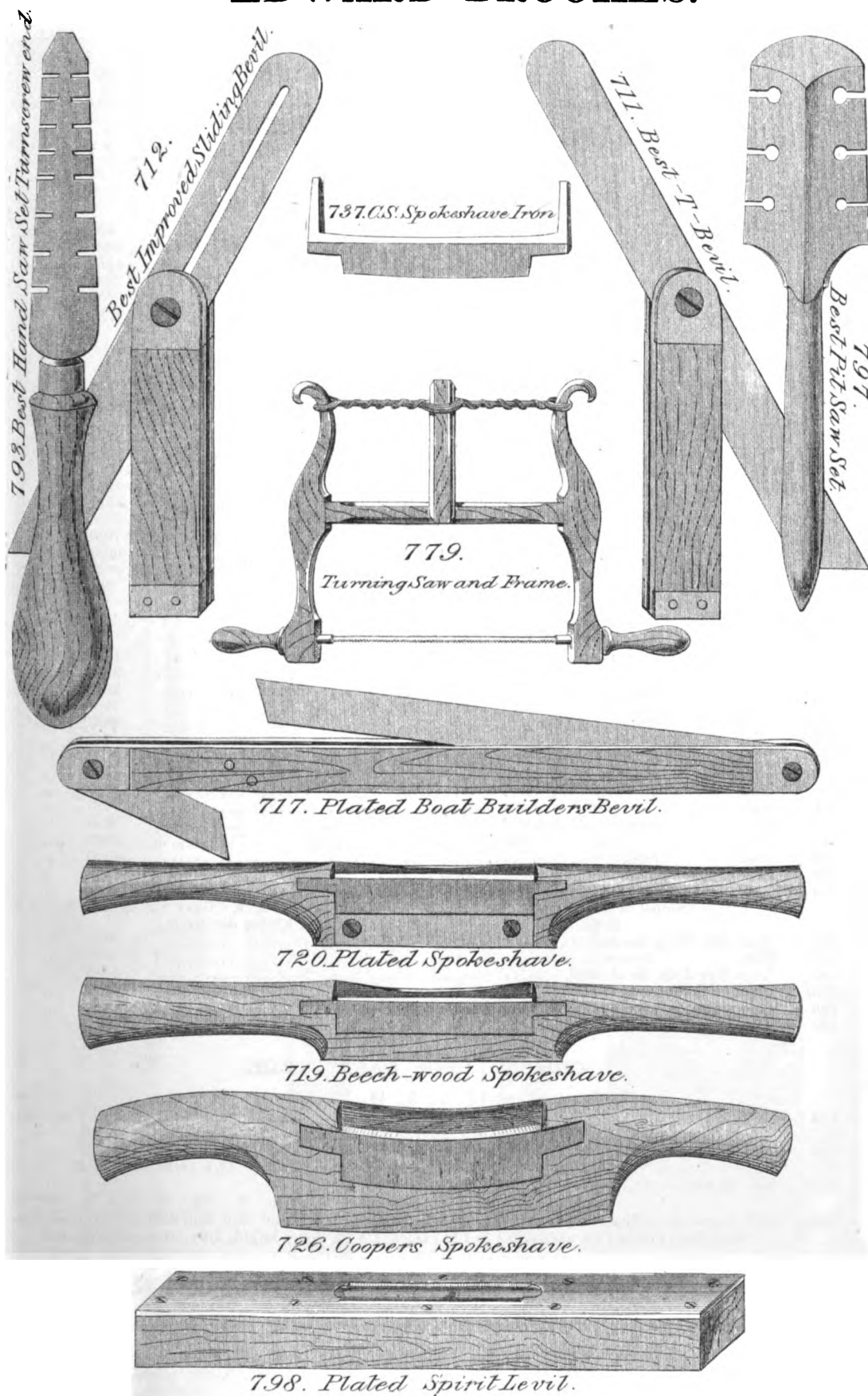
		To 10	12	14	16	18	20	22	24	26	inches.
779	Turning Saws, in beechwood frames	54/0	60/0	64/0	76/0	88/0	100/0	112/0	124/0	136/0	per doz.
780	Ditto with improved box handle, brass collar	60/0	66/0	70/0	85/0	97/0	112/0	124/0	..	..	..
		To 12	14	16	18	20	24	inches.			
781	Beechwood Saw Frame Handles	16/0	18/0	20/0	22/0	25/0	28/0	per doz.	pairs.		
782	Boxwood ditto	22/0	24/0	26/0	31/0	34/0	..	..	..	..	..
783	Boxwood and Ebony Octagon London Pattern ditto.										
		6	9	12	15	18	21	24	tools.		
788	Boxwood Hollow Hand Pads	5/9	7/0	8/3	9/6	10/9	12/0	13/6	each.		
789	Best Improved Brad Awl Pads, 8 tools							80/0	per doz.		
790	Middle ditto ditto							20/0	..		
791	Common ditto ditto							16/0	..		
792	Ebony and Rosewood ditto 4/0 per doz. extra, gross.										
793	Best Hand Saw Sets							12/0	..		
794	Ditto ditto with box or hardwood handles							14/0	..		
795	Ditto ditto with fork or turnscrew							15/0	..		
796	Best Slide Saw Sets, beech handles, single edge, 22/0; double edge							28/0	..		
797	Ditto ditto with box handles, single edge, 24/0; with ebony handles							26/0	..		
797A	Best Pit Saw Sets, 4 gates, 15/0; 5 gates, 18/0; 6 gates, 21/0; extra strong, 28/0; if bright, 32/0 ..										

SPIRIT LEVELS.

		8	9	10	12	14	inches.
798	Plated Spirit Levels	40/0	44/0	48/0	56/0	66/0	per doz.
799	Ditto both sides	52/0	58/0	64/0	76/0	88/0	..
	Side View Spirit Levels, 3/6 per doz. extra; brass ditto, 8/6						
799A	Masons' Rule Spirit Levels, 12 in., 35/0 per doz.						
799B	Ditto ditto with plumb, 12 in., 50/0 per doz.						
	Common Scrapers, 3½ in. blade, 10/0						
	Best Spring Scrapers, 4½ in. blade, 24/0						
	Scraper Blades, 1d. per in.						
	Cast Steel Scraper Steels, 3/6 per doz.						
	Scraper Steels, hardwood handles, 7/6 per doz.						
	Ditto beechwood ditto 5/6 ..						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

JOINERS' TOOLS.—Continued.

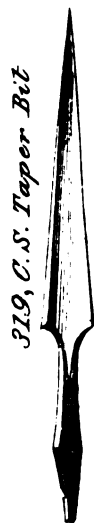
Dis- count.	No.		
MARKING GAUGES.			
	742	Beechwood Marking Gauges	8/0 per doz.
	742A	Best ditto	10/0 "
	743	Beechwood Plated ditto	13/0 "
	744	Ditto head faced with brass	22/0 "
	745	Ditto head and stem ditto	36/0 "
	746	Hardwood Marking Gauges	19/0 "
CUTTING GAUGES.			
	747	Beechwood Cutting Gauges	13/0 "
	748	Ditto Plated ditto	16/0 "
	749	Hardwood Cutting ditto	22/0 "
	750	Ditto Brass Hooped Gauges	28/0 "
	751	Ditto head faced with brass	40/0 "
	752	Ditto head and stem brass	52/0 "
	753	New Cutting Gauges, rosewood, 36/0; ebony	40/0 "
	753A	Ditto ditto shield plated, rosewood, 42/0; ebony	46/0 "
	754	Ditto ditto head faced with brass, rosewood, 54/0; ebony	58/0 "
	755	Ditto ditto head and stem faced with brass, rosewood, 65/0; ebony	70/0 "
	756	Improved Cutting Gauges, ebony	60/0 "
	757	Ditto Leather Cutters' Gauges	96/0 "
	758	Gauge Bowlers, per set of eight	2/6 "
MORTICE GAUGES.			
	759	Mortice Gauges, split stem	18/0 "
	760	Ditto improved split stem	22/0 "
	761	Ditto brass slide	28/0 "
	762	Ditto best slide	34/0 "
	763	Ditto ditto plated	40/0 "
	764	Ditto head faced with brass	48/0 "
	765	Ditto thumb or turnscrew stem, screw slide, rosewood	56/0 "
	765A	Ditto ditto ditto ebony	60/0 "
	766	Ditto head faced with brass	68/0 "
	766A	Ditto ditto ebony	72/0 "
	767	Ditto reverse end, turnscrew slide, rosewood	66/0 "
	767A	Ditto ditto ditto ebony	70/0 "
	768	Ditto patent, with rack	108/0 "
	769	Improved Mortice Gauge, with improved stem	104/0 "
	770	Ditto ditto patent, with rack	130/0 "
		Cabinet or Gents' Gauges, same price. Steel Faced Gauges, 6/0 per doz. extra. If with brass headed thumbscrews to heads, 5/0 per doz. extra.	
	784	Small Saw Pads, beechwood	13/0 "
	784A	Ditto rosewood	16/0 "
	785	Large Saw Pads, beechwood	16/0 "
	785A	Ditto rosewood	18/0 "
	786	Best Boxwood Saw Pads	24/0 "
	787	Best Ebony ditto	30/0 "
CENTRE BITS, CAST STEEL.			
		To $\frac{3}{8}$ $\frac{7}{8}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 $1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$ $1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{3}{4}$ 2 inches.	
	812	Black	4/0 4/6 4/6 4/9 5/0 5/6 6/0 7/0 8/0 9/0 10/0 11/0 12/6 14/0 16/0 per doz.
	812A	Round Centre Bits ..	5/0 5/6 5/6 5/9 6/0 6/6 7/0 8/2 9/2 10/2 11/2 12/4 13/10 15/4 17/4 "
	813	Bright Centre Bits ..	5/0 5/6 5/6 5/9 6/0 6/6 7/0 8/2 9/2 10/2 11/2 12/4 13/10 15/4 17/4 "
	814	Straw Colour	5/8 6/2 6/2 6/5 6/8 7/2 7/8 8/10 10/0 11/0 12/0 13/4 14/10 16/4 18/4 "
	814A	Saw Handle Centre Bits, 14/0 per doz.	
		To $2\frac{1}{8}$ $2\frac{1}{4}$ $2\frac{3}{8}$ $2\frac{1}{2}$ $2\frac{5}{8}$ $2\frac{3}{4}$ 3 $3\frac{1}{8}$ $3\frac{1}{4}$ $3\frac{3}{8}$ $3\frac{1}{2}$ inches.	
	814B	C. S. Black Centre Bits, sharpened 20/0 23/0 26/0 30/0 35/0 40/0 46/0 52/0 58/0 64/0 70/0 76/0 per doz.	
		Cast Steel Centre Bits, assorted, $\frac{1}{8}$ to 1 in., black, 4/8 per doz.; bright, 5/8; straw coloured, 6/4	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

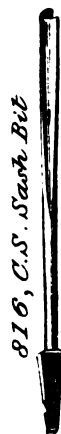
EDWARD BROOKES.



495, Bright Screw Bit for Brace



319, C.S. Taper Bit



816, C.S. Shank Bit



815, C.S. Shell Bit



815, C.S. Nose Bit



815, C.S. Spoon Bit



829, C.S. Square Rinder



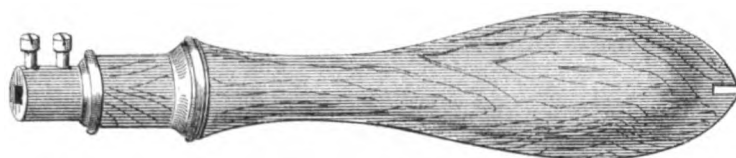
829, C.S. 1/2 Round Rinder



818, C.S. Gimblet Bit



839, Cooper's Dowling Bit



785, Sam Pad



812, Centre Bit



814, A Saw Handle Centre Bit



823, Plug Centre Bit



812, A Round Centre Bit



823, Small Horn Countersink



828, Roundhead Countersink



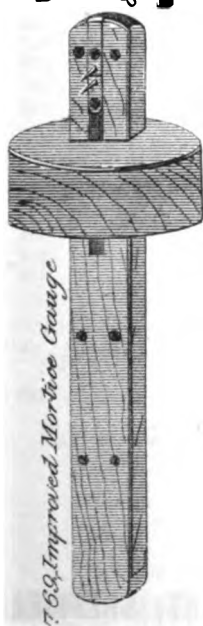
826, Flathead Countersink



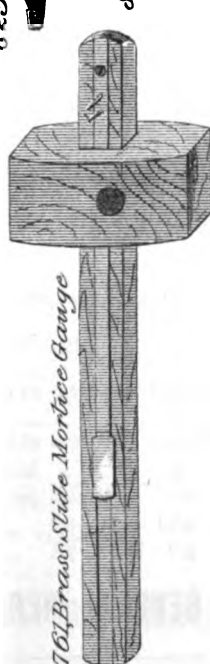
823, Bruce Turnover



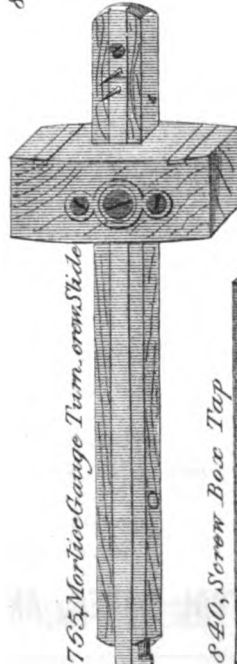
831, C.S. Bobbin Bit



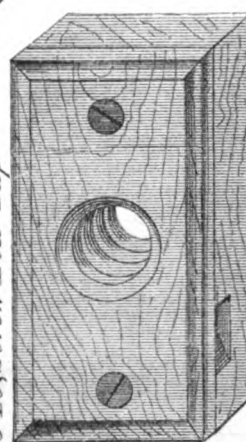
769, Improved Mortise Gauge



761, Brass Slide Mortise Gauge



753, Mortise Gauge Turn-over Slide



840, Screw Box Tap



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

JOINERS' TOOLS.—Continued.

Dis- count.	No.	CAST STEEL NOSE, SPOON, AND SHELL BITS.									
		To $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 3 4 5 6 inch.									
	815	Cast Steel Black Nose, Shell or Spoon Bits, bright insides.... 4/8 5/0 5/0 7/0 8/0 12/0 14/6 per doz.									
	816	Ditto Black Sash Doweling and Table Bits, ditto 5/6 6/0 6/6 "									
		Bright, 7d. per doz. extra; straw coloured, 8d. extra to bright.									
	817	Long Black Wheeler Bits..... 7/3 7/9 9/3 10/6 11/8 "									
		Cast Steel Black Nose and Shell Bits, assorted, $\frac{1}{4}$ to $\frac{3}{4}$, 5/0; bright, 5/7; straw coloured, 6/8 per doz.									
	818	Cast Steel Black Gimlet Bits, bright insides 5/0 6/0 7/0 per doz.									
	818A	Bright ditto 5/7 6/7 7/7 ..									
	818B	Straw Coloured ditto 6/8 7/3 8/3 ..									
	819	Cast Steel Black Taper Bits, to $\frac{3}{8}$ in., 7/6; $\frac{1}{2}$ in., 9/6; $\frac{3}{4}$ in., 11/6; 1 in., 13/6 per doz.									
	820	Ditto Bright ditto to $\frac{3}{8}$ in., 8/1; $\frac{1}{2}$ in., 10/2; $\frac{3}{4}$ in., 12/4; 1 in., 14/8 ..									
	820A	Ditto Straw Coloured Taper Bits, to $\frac{3}{8}$ in., 8/9; $\frac{1}{2}$ in., 10/10; $\frac{3}{4}$ in., 13/0; 1 in., 15/6 per doz.									
	821	Ditto Black Bed Taper Bits, to $\frac{1}{2}$ in., 7/6; bright, 8/1; straw coloured, 8/9 per doz.									
	822	Best Centre Cook Taper Bits, to $\frac{3}{8}$ in., 20/0; $\frac{1}{2}$ in., 22/0; 1 in., 24/0 per doz.									
	823	Ditto Plug ditto to 1 in., 14/6; $1\frac{1}{2}$ in., 16/0; $1\frac{3}{4}$ in., 18/0 per doz.									
	824	Floor Doweling Bits, black, $\frac{1}{4}$ in., 5/6; $\frac{1}{2}$ in., 6/0; $\frac{3}{4}$ in., 6/6; bright, 7d. extra; straw coloured, 8d. extra to bright, per doz.									
	825	Brace Turnscrows, black, 4/0; bright, 4/11; straw coloured, 5/7 per doz.									
	825A	Forked ditto black, 4/6; bright, 5/6; straw coloured, 6/1 ..									
	826	Flat Head Countersinks, black, $\frac{1}{4}$ in., 4/6; $\frac{1}{2}$ in., 4/6; $\frac{3}{4}$ in., 5/6; bright, 11d. extra; straw coloured, 8d. extra, to bright, per doz.									
	827	Snail Horn Countersinks, black To $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 1 in. If assorted to $\frac{1}{2}$ in. 5/0 5/0 6/0 9/0 13/0 16/0 per doz. 5/0 per doz.									
		Ditto bright 5/11 5/11 6/11 10/0 14/0 17/0 .. 5/11 ..									
		Ditto straw coloured 6/7 6/7 7/7 10/8 14/9 17/10 .. 6/7 ..									
	828	Rose Head Countersinks, black 5/0 6/0 7/0 5/6 ..									
		Ditto bright 5/11 6/11 7/11 6/5 ..									
		Ditto straw coloured 6/7 7/7 8/7 7/1 ..									
	828A	Ditto ditto 12 cuts, black 5/6 6/6 8/0 10/6 14/6 17/0 .. 6/0 ..									
		Ditto bright 6/6 7/5 8/11 11/6 15/6 18/0 .. 6/11 ..									
		Ditto straw coloured 7/1 8/1 9/7 12/3 16/3 18/10 .. 7/7 ..									
	829	Cast Steel Square and Half-round Binders, black, 5/0; bright, 5/11; straw coloured, 6/7 per doz.									
	830	Ditto 5 and 6 side ditto black, 7/6; bright, 8/5; straw coloured, 9/1 ..									
	830A	Ditto 8 side ditto black, 6/6; bright, 7/5; straw coloured, 8/1 ..									
	831	Cast Steel Bobbin Bits, 6/6 per doz.									
CAST STEEL SCREW PIN CENTRE BITS.											
		To 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ $1\frac{1}{2}$ 2 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{3}{4}$ $2\frac{1}{2}$ inches.									
	832	Black Screw Nose Centre Bits, usual length 16/0 17/6 19/0 20/0 22/0 24/6 27/0 32/0 per doz.									
	833	Black Long Nose Centre Bits, for waggon builders 18/0 20/0 21/0 23/0 26/0 28/0 30/0 37/0 41/0 45/0 50/0 55/0 ..									
	833A	CAST STEEL BRACE DRILL BITS, assorted to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ inches.									
		Black 4/0 4/6 5/6 per doz.									
		Bright..... 4/11 5/5 6/5 ..									
		Straw Coloured 5/7 6/1 7/1 ..									

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

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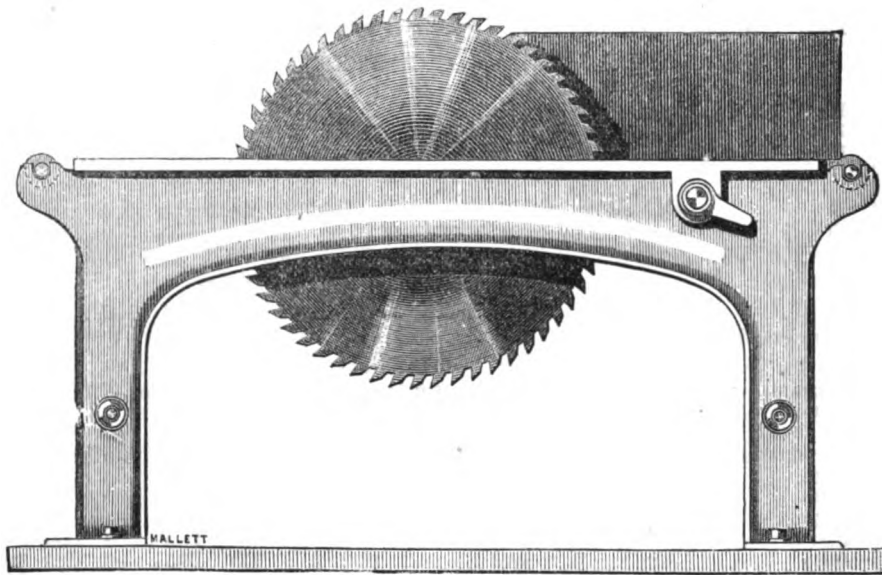
EDWARD BROOKES.

JOINERS' TOOLS.—Continued.

No.	BRACE BITS, IN SETS, ASSORTED.															
						12	18	24	30	36	42	48	54	60 bits.		
834	Cast Steel Black Bits, assorted, bright insides					4/8	7/0	9/4	11/10	15/3	17/0	20/0	23/0	26/0 set.		
835	Ditto	Bright	ditto			5/3	7/11	10/6	13/4	17/0	19/0	22/4	25/8	28/11 "		
836	Ditto	Straw Colour	ditto			5/11	8/11	11/10	15/0	19/0	21/5	25/0	28/8	32/3 "		
CHAIR, BRUSH, AND COOPERS' DOWLING BITS.																
						$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 inch.		
837	Black Flat Shank Chairmakers' Bits					4/0	4/0	4/0	4/0	4/0	5/9	6/6	8/0	10/0 per doz.		
838	Ditto	ditto	Brushmakers' Bits			4/0	4/0	4/0	5/0	6/0	..	..	..	..
839	Black Coopers' Dowling Bits					3/0	3/0	3/0	3/3	3/6	..	..	..	..
All Flat Shank Bits, same price as Square Shanks.																
SCREW BOXES AND TAPS, COMPLETE.																
	To	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{3}{4}$	3 inches.		
		3/6	4/0	4/6	5/0	5/6	6/0	7/0	8/0	9/0	10/0	13/0	17/0	21/0 25/0 30/0 each.		
WHEELERS' ROUNDERS.																
						To	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$ inches.		
841	Wheelers' Rounders					5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/6	each.		
GIMLETS.																
842	Warranted Cast Steel Shell Gimlets, assorted to										$\frac{1}{8}$, 4/0; all $\frac{1}{4}$, 5/0 per doz.					
843	Ditto	Patent	ditto						to	$\frac{1}{4}$, 5/0; all $\frac{1}{2}$, 6/0						
							$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	inch.		
844	Best Cast Steel Shell Spike Gimlets					6/0	7/0	8/0	9/6	11/0	13/0	16/0	per doz.			
845	Ditto	ditto	Box Heads			8/6	9/6	10/6	12/6	14/6	17/0	20/0	..			
846	Ditto	ditto	Patent Spike Gimlets			9/0	10/0	11/6	13/6	16/0	19/0	22/0	..			
847	Ditto	ditto	Box Heads			11/6	12/6	14/0	16/6	19/6	23/0	26/0	..			
848	Best Bellhangers' or Ship Gimlets					8/0	9/0	10/0	11/0	12/0	14/0	16/0	..			
849	Ditto	ditto	eyed			12/0	13/0	14/0	15/0	16/0	18/0	20/0	..			
850	Best Wheelers' Gimlets					5/0-	6/0	7/0	8/6	10/0	12/0	15/0	..			
851	Best Screw Auger Gimlets, box heads														..	
	Ditto	ditto	assorted to $\frac{1}{4}$ in., 9/0 per doz.													
852	Boxwood Cucumber Slicers, 36/0; with Improved Spring, 42/0															
PLOUGH PLATES, STOPS, &c.																
853	Plough Plates, steel										20/0	per doz.				
853A	Ditto	skate end										26/0	..			
854	Plough Stops										26/0	..				
854A	Ditto	screw at side										30/0	..			
855	Sash Filister Stops										25/0	..				
856	Improved ditto										27/0	..				
857	Moving ditto										17/0	..				
858	Improved Moving Filister Stops										25/0	..				
859	Dado Trenching Stops										16/0	..				
All Stops with Improved Wing, 5/0 per doz. extra																
						To	$1\frac{1}{2}$	$1\frac{3}{4}$	2	inches.						
860	Coopers' Croze Irons					6/6	..	..	..	per doz.				
861	Best	ditto				10/0	13/4	14/0	..							
862	Hawk Kneb ditto					16/0	18/0	20/0	..							
863	Coopers' Croze Stocks, 40/0 per doz.															
864	Best	ditto	46/0													
865	Best Hawk Kneb Irons, 55/0					..										
SUNDRIES.																
						4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	inches.			
Gentlemen's Cast Steel Box Handle Drawing Knives					20/0	22/0	24/0	26/0	28/0	30/0	32/0	per doz.				
Ditto	Beech Handle ditto				18/0	18/0	18/0	20/0	22/0	24/0	26/0	..				
Cast Steel Curriers' Steels					4/0 doz.	Cast Steel Brad and Nail Punches					2/6	doz.				
Ditto	ditto	with beech handles			6/0	Ditto extra strong flooring					5/0	..				
Ditto	ditto	with box handles			8/6	Ditto handled, round					1/0	..				
Scribing Tools, beech handles, 4/6; hardwood					3/6	Ditto best improved Brad Awl Blades					2/4	..				
Marking Awls					3/6	Ditto handled, oval					1/3	..				
Striking Knives					6/6	Oval Beech Brad Awl Handles					5/0	..				
Beech Chalk Lines					2/6	Oval Boxwood ditto					0/10	..				
Boxwood ditto					5/0	Flooring Awls					1/6	..				
Brad Awl Blades, shouldered					0/9	Improved ditto					3/8	..				
Gentlemen's Mallets					16/0	Ditto handled, oval, 4/0; round					5/0	..				
Joiners' Mallets, 22/0; Carpenters'					24/0	Ditto round, with strong brass ferrules					5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	8 in. head.
Morticed Mallets, oiled only 24/0 27/0 30/0 34/0 38/0 42/0 per doz.																

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

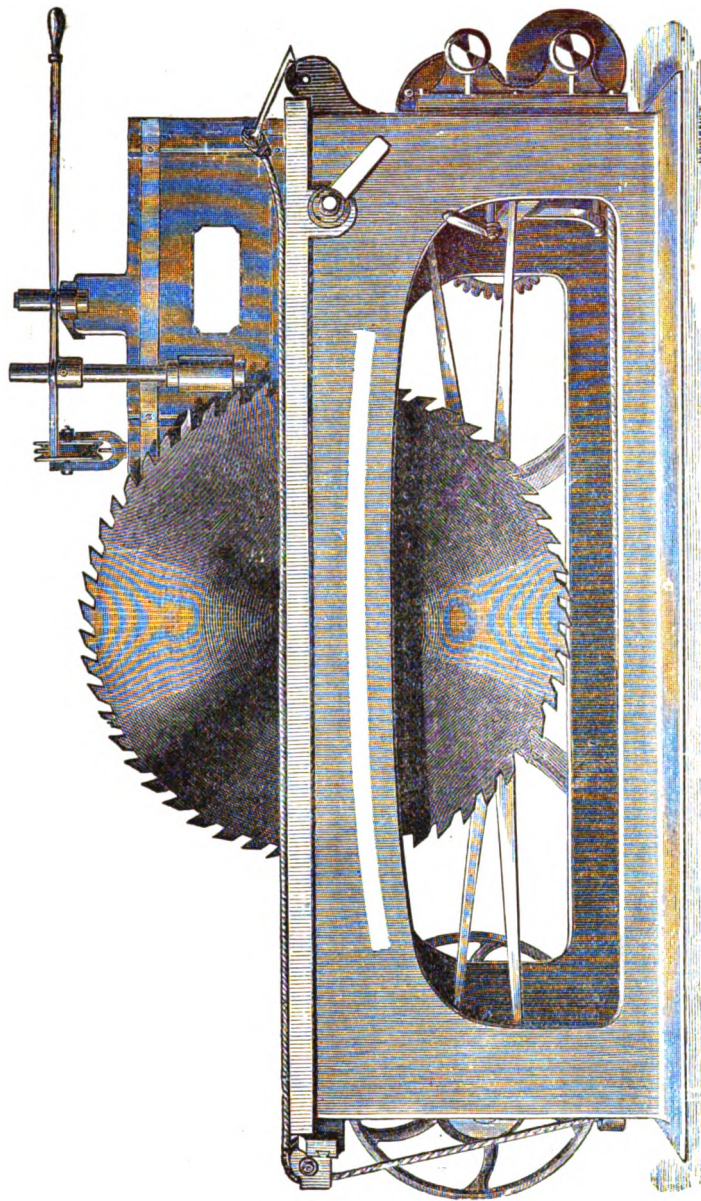


No. 994A. PLAIN CIRCULAR SAW BENCH.

This Bench has been constructed to meet the wants of Agriculturists, Builders, Shippers, and others, who require a cheap Bench for easy transit from place to place, or for export. It is readily and easily taken to pieces, packs in small compass, and can be put together again without the assistance of a skilled workman. The table top is cast iron, planed perfectly true; the sides and ends are in one piece, the spindle runs in long gun-metal bearings, and is fitted with driving pulley, turned perfectly true. The fence is strong, simple, and easily adjustable; turned rollers are fixed at each end of the Bench to carry the timber while sawing.

Size of Table,	To take a Saw,	Driving Pulleys,	Price.
5 ft. by 2 ft. 6 in.	36 in. diameter.	10 in. diameter.	£ s. d. 24 0 0
Loose Pulley and Throw-off Gear			2 0 0
Boring Table and Bits			5 0 0

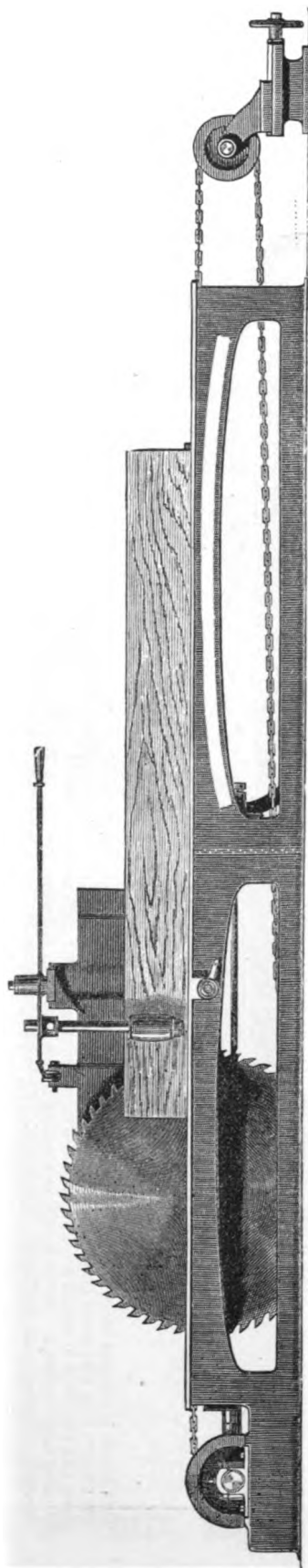
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.



No. 994B. SELF-ACTING CIRCULAR SAW BENCH.

This Bench is adapted for cutting planks, deals, and battens, at speeds varying from 15 to 50 ft. per minute. The saw spindle is made of the best scrap iron (or steel, if preferred), and runs in long gun-metal bearings, the outer end of which is supported by an out-side standard. Self-acting feed motion is attached, specially designed with a view to economy in space and efficiency in working. The fence can be set at an angle, for cutting feather-edge boards, and always maintains a parallel position with the saw, whatever be the angle at which it may be placed. If the Bench be required for cross-cutting, the fence can be removed with very little trouble. The framing and table top being cast in one piece, great strength, combined with portability, is obtained. No brick foundation is required, its own weight being sufficient to keep it steady while working.

To take a Saw		To Cut	Size of Table.		Driving Pulleys.		Price.	
							£	s. d.
36 in. diameter.		15 in. deep.	5 ft. 9 in. by 2 ft. 9 in.		12 in. diameter.		65	0 0
42 " "		18 " "	6 ft. 0 in. by 3 ft. 0 in.		14 " "		70	0 0
48 " "		21 " "	7 ft. 0 in. by 3 ft. 3 in.		16 " "		90	0 0
54 " "		24 " "	7 ft. 6 in. by 3 ft. 6 in.		16 " "		100	0 0
60 " "								

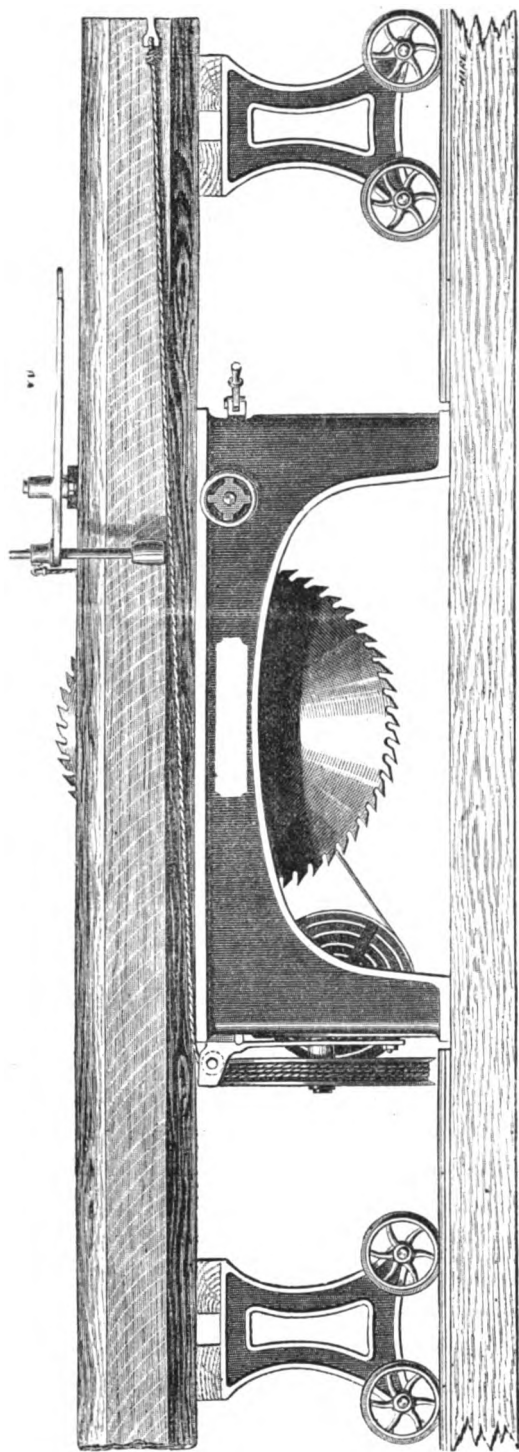


No. 994c. SLEEPER CUTTING SAW BENCH, WITH CONTINUOUS CHAIN-FEED.

This Bench is specially constructed for *cutting Railway Sleepers*. It differs from an ordinary self-acting Saw Bench in having an endless chain in place of a rope, to drag the timber up to the saw. By this arrangement a great amount of wear and tear is avoided and time gained, as loose dogs are attached to any part of the chain, and taken out as soon as the saw is through the wood; by this means a continuous motion is obtained. A clutch and lever is provided, to throw the feed-motion out of gear when required. The Bench can be used for ordinary sawing, and for longer cuts than is required for sleeper cutting, by having the chain lengthened, and the chain wheel carried farther away from the saw, to give the necessary tension to the chain.

The Bench is made strong and compact, to stand any amount of rough usage, and the working parts are so arranged as to bring down the wear and tear to the lowest possible point. Three gun-metal bearings are provided for the saw-spindle to run in, giving a large amount of bearing surface.

	To take a Saw	Size of Driving Pulleys.	Horse Power.	Will Cut.		Price.	
						£	s. d.
No. 1	48 in. diameter.	16 in. diameter.	8 horse.	20 in. deep.			
No. 2	64 " "	18 " "	10 "	28 " "			



No. 994D. PATENT SELF-ACTING SAW BENCH.

This is the most perfect Self-acting Saw Bench yet brought out, being fitted with all the most improved arrangements for saving either timber or deals. The patented improvements consist in a new and very simple arrangement for feeding the timber up to the saw, which not only obviates the many disadvantages attending the employment of the complicated system of spur and bevil wheels, which has hitherto been employed for the purpose, but enables the makers to offer these benches at a very considerable reduction on the prices of ordinary Self-acting Saw Benches. The feed motion is driven from the saw spindle, and can be varied so as to bring the timber forward at rates ranging from 15 to 60 feet a minute. The feed rope is coiled round a large drum at the end of the Bench, and the gearing by which it is worked is boxed in and effectually protected by the framing of the machine. When the feed motion is thrown out of gear, the rope readily uncoils from the barrel, which runs round freely upon a fixed pin.

The fence is adjustable to cant at any required angle, and is provided with a lever and roller, with weight for holding the timber close to its face; it is fitted with a screw adjustment, by means of which its distance from the saw can be regulated with the utmost nicety; and when not required it can be readily removed, so as to leave the table clear for cross-cutting. The saw spindle is entirely of steel, and works in three pairs of gun-metal bearings, two of which are fixed in plummer blocks, bolted to the under side of the table, and the third bearing is carried in an independent cast-iron standard, which is bolted to the floor, and carries the end of the saw spindle outside the driving pulleys.

The main framing of the Bench is all made in one casting and combines immense rigidity and strength with comparative lightness, and every part of the machine is fitted with the utmost nicety.

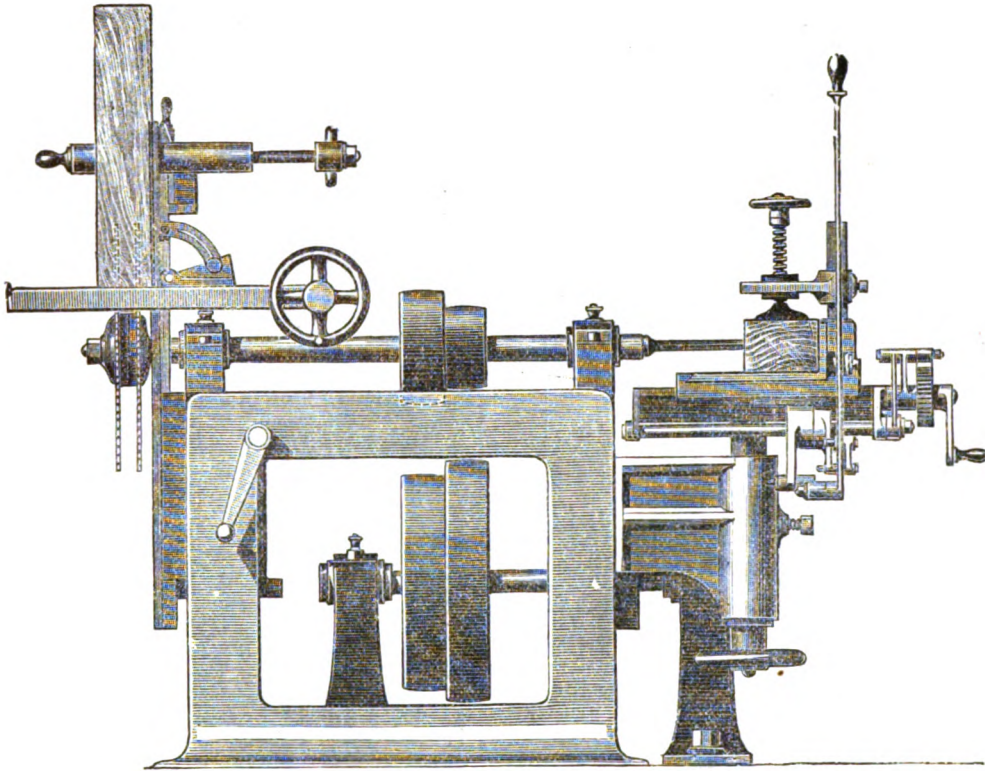
A pair of strong iron carriages, running on rails, is frequently supplied (at an extra price) when the bench is required for cutting timber, for carrying the ends of the log. They are made of two sizes, as under:—

Sizes.	Size of Table.	Weight without Carriages and Rails	Weight with Carriages and Rails	Average Power.	Diameter of Driving Pulleys.	Speed of Saw.	PRICE. £ s. d.
No. 2, to work saws up to 36 in. diameter.	5 ft. 6 in. by 2 ft. 9 in.	20 cwt.	30 cwt.	6 Horse.	14 inch.	1000 revolutions.	65 0 0
No. 3, " " 48 in. "	6 ft. 6 in. by 3 ft. 3 in.	28 " "	40 " "	8 " "	16 "	800 "	77 0 0
No. 4, " " 48 in. "	7 ft. 6 in. by 3 ft. 6 in.	36 " "	48 " "	8 " "	16 "	800 "	90 0 0

The carriages shown in the engraving at each end of the Bench are used, when sawing timber, for carrying the ends of the logs, but the Benches can be had either with or without them.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.



END ELEVATION.

No. 994E. THE JOINER UNIVERSAL.

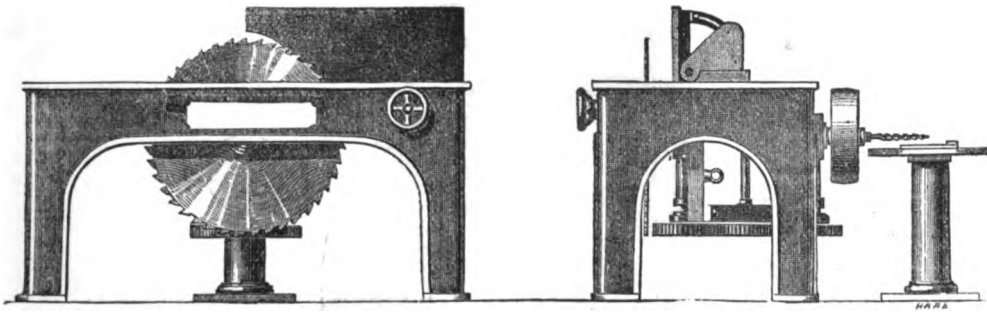
The Joiner Universal; or, General Joiner, is a combination of machines, specially constructed for the expeditious manufacture of Joinery. The Machine illustrated is one of the simplest and best offered to buyers. It will take a saw 26 inches diameter, and therefore may be used as an ordinary Saw Bench, for cutting any kind of wood up to 10 inches deep; also for Cross-cutting, Thicknessing, Grooving, Tonguing, Rabetting, Morticing, Boring, Tenoning (at one operation by using PATENTED Disc-cutters, or by two saws, as illustrated), Moulding, Beading, Chamfering, Mitreing, Wedge-cutting, Sticking Sash Bars—in short, as the name indicates, it is intended to supplant manual labour in the preparation of Joinery.

The Spindle is a fixture, and runs in long gun-metal bearings, the table being made to rise and fall, so that it can be adjusted to the given depth required to be cut by the saw. A slide, made to fit on the table, for cross-cutting, a tenon-holder, or cramp, to fit on the fence, for tenon-cutting, and a square block, fitted to the end of a saw spindle, for moulding, are supplied with the machine.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.



Scale, $\frac{1}{2}$ inch to a foot.

994F. GROOVING AND RABETTING BENCHES.

These correspond in size to the Plain Saw Benches, but differ from them in having the spindles made to rise and fall for Grooving, Rabetting, Tenoning, &c., &c. These Benches are peculiarly adapted for a Joiner's shop, where they can be used to great advantage for a variety of purposes, besides being always available as plain Saw Benches. If required, they are fitted with a boring table and side plate, the augers being fitted into the end of the saw spindle.

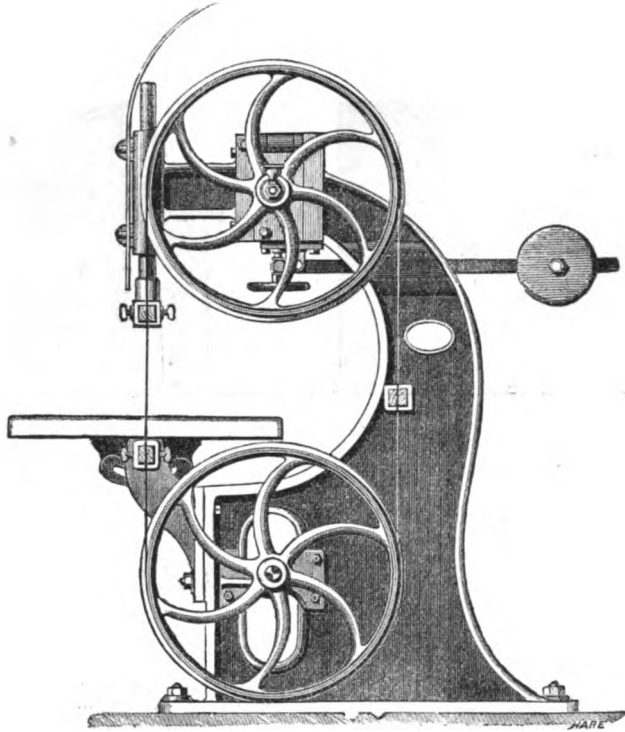
A small adze block can be attached to the saw spindle, with cutters of any pattern, for making mouldings, &c.

Sizes.	Weight.	Average Power required.	Diameter of Driving Pulleys.	Speed of Saws.	Price.		
					£	s.	d.
No. 1, to work saws up to 15 in. diameter	8 cwt.	1 horse.	6 inches.	1800 revs.			
No. 2 do 24 do.	12 „	3 „	12 „	1500 „			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.



Scale, $\frac{1}{2}$ inch to a foot.

No. 994G. PLAIN BAND SAW MACHINE.

These Machines are very strong and well fitted, the main framing being made in one casting of a strong section, and with a wide base, so that they are absolutely free from vibration when at work, and there is no undue strain on any part of the machine.

The table, which is planed all over, is arranged to cant to any required angle for bevil sawing.

By simply changing the saw, the same machine can be used for the finest ornamental work, or for cutting through large pieces of hard wood.

They are made in two sizes, as under:—

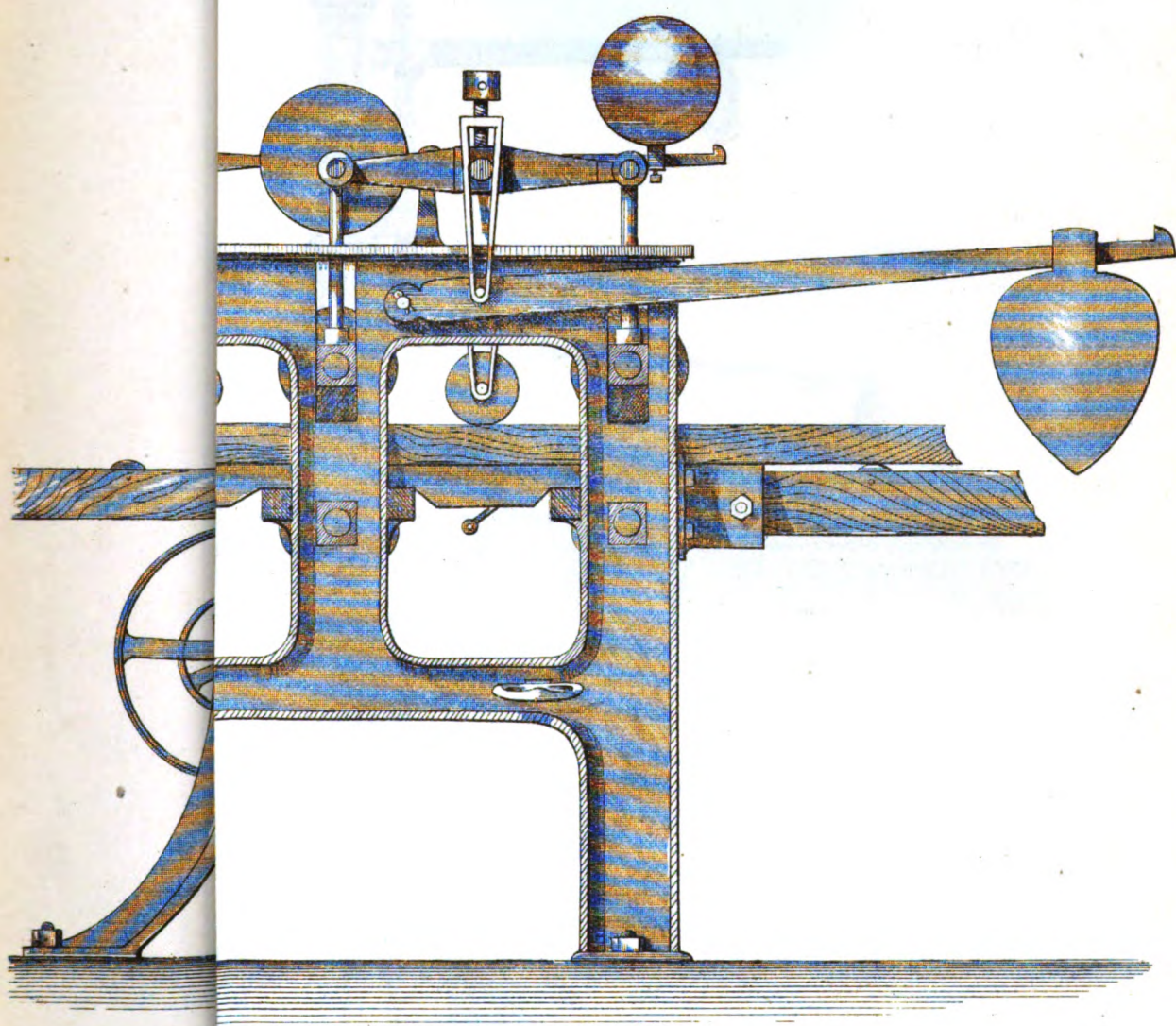
Size.	Weight.	Average Power required.	Diameter of Saw Pulleys.	Diameter of Driving Pulleys.	Revolutions per minute.	Price. £ s. d.
No. 1, to cut 12 in. thick.	22 cwt.	About 2 horse.	30 in.	14 in.	400	
No. 2 „ 18 „	33 „	„ 3 „	42 in.	16 in.	350	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

MAKER, SHEFFIELD.

PROOVING MACHINE,

OLDINGS ON SKETTING.

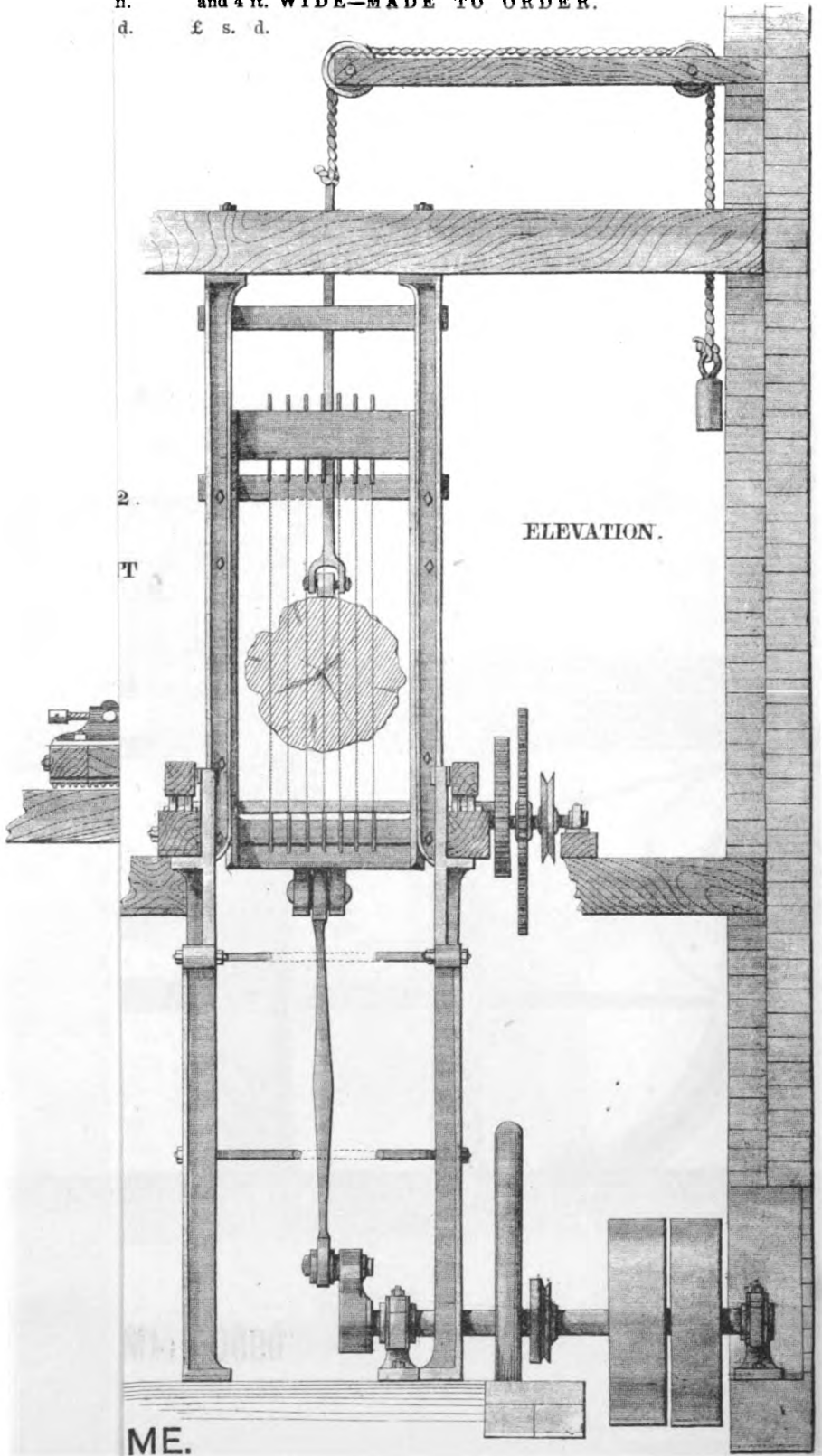


NG MACHINE.

KER, SHEFFIELD.

3 FRAME,

n. and 4 ft. WIDE—MADE TO ORDER.
d. £ s. d.

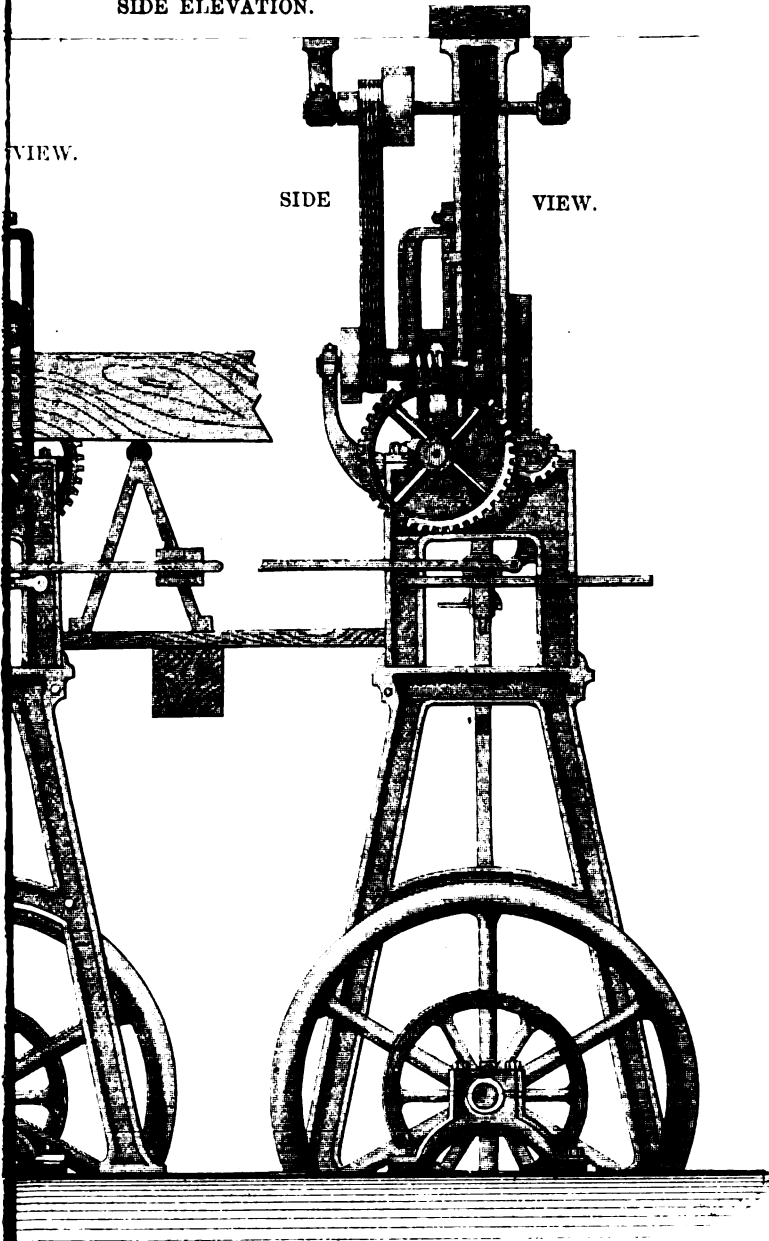


LD LIST.

L FRAME,

TH 2 LOOSE SKELETON FRAMES, £ s. d.

SIDE ELEVATION.



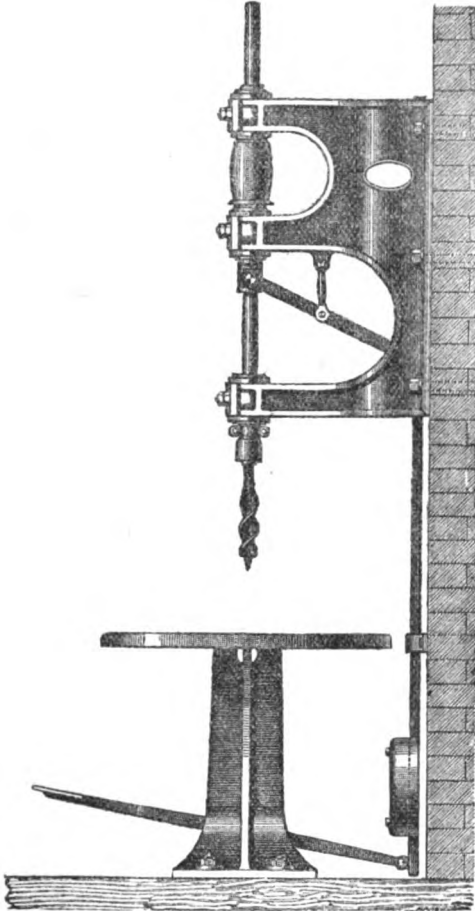
FRAME.

GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

No. 994H. WALL BORING MACHINE.



This Machine is constructed to bolt against a wall, and is suitable for use in railway wagon shops, implement works, dockyards, &c., &c. It will bore holes of any size up to 8 inches in diameter and 12 inches deep.

A cast iron table, having a turned top, is supplied with the Machine, and a counter shaft, with fast and loose riggers, not shown in the engraving, is included in the price quoted in the list.

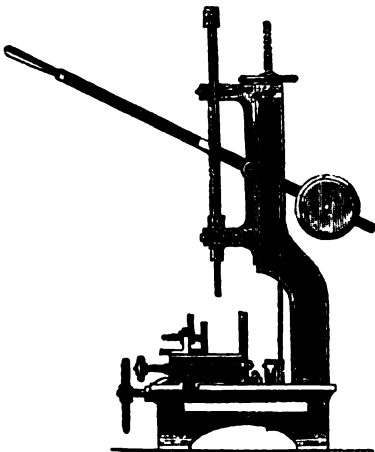
The auger is brought down to the wood either by a hand lever or treadle, as may be preferred, and is taken up out of work by a counter-balanced weight, which works close to the wall.

£. s. d.

Weight.	Average Power required.	Diameter of Pulleys on Counter Shafts.	Speed of Counter Shaft.
About 1 ton.	$\frac{1}{2}$ horse.	10 inches.	400 revs.

Scale, $\frac{1}{2}$ inch to a foot.

994I. HAND MORTICING MACHINE.



The Machine here represented is recommended to the attention of such as do not employ steam power, and with it a lad will do as much work as six men morticing with a hand chisel.

It will work chisels up to $\frac{3}{4}$ inch wide, and the slide which carries the cutter can be raised sufficiently high to take a door stile up to 11 inches deep. The table is fitted with all requisite movements for bringing the work into the required position under the chisel, and motion is given to the tool by the counterbalanced hand-lever shown in the woodcut.

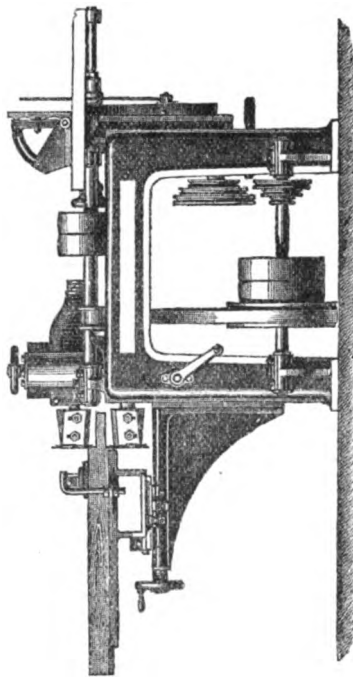
An apparatus for tenoning is also sometimes supplied, as an extra, with the Hand Morticing Machine.

It is frequently fitted with an arrangement for boring, by giving a rotary motion to the chisel spindle, but can be had either with or without this addition.

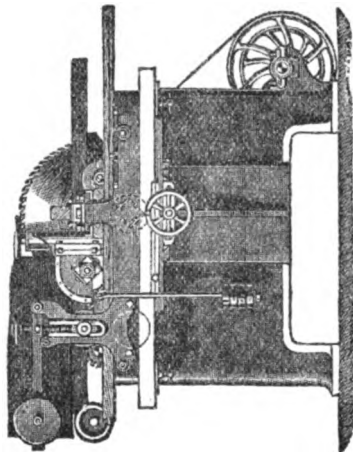
£. s. d.

Scale, $\frac{1}{2}$ inch to a foot.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.



Scale, $\frac{1}{4}$ inch to a foot. END VIEW AS ARRANGED FOR TENONING.



SIDE VIEW AS ARRANGED FOR MOULDING.

No. 994J. PATENT "GENERAL JOINER."

The Machine represented above is a great improvement on the one in general use, and a good notion may be formed of its capabilities from the following brief statement of some of its most useful functions :—

- 1.—*Sawing*.—It will work saws up to 20 inches in diameter, and saw stuff up to 7 inches thick.
- 2.—*Planing*.—It will plane both sides and thickness, in one operation, boards up to 7 inches wide.
- 3.—*Moulding*.—It will cut single or double mouldings of any pattern, in any kind of wood, up to 5 inches wide.
- 4.—*Circular Moulding*.—It will cut circular mouldings of any pattern, mould and rebate circular sashes, &c.
- 5.—*Grooving*.—It will cut grooves from $\frac{1}{8}$ inch to 14 inches in width.
- 6.— *mortising*.—It will make mortises from $\frac{1}{8}$ inch to 2 inches in depth.
- 7.—*Boring*.—It will bore holes from $\frac{1}{4}$ inch to 2 inches diameter.

In addition to the above, the Patent "General Joiner" may be used for Rebating and Moulding Sash Frames, &c., Altering, Chamfering, Tonguing, and a great variety of other purposes. It is worked by two lads, and will do the work of at least thirty skilled Joiners.

It possesses the following advantages over other machines of this class :—

- 1.—The Tenoning, Planing, Thicknessing, and Moulding operation can be carried on without interfering in any way with those that are done at the Sawing end of the machine.
- 2.—The Tenons are formed at one operation by Cutters, which finish them much more accurately than is the case where saws are employed for this purpose, as in other machines of this class.
- 3.—The wood to be Tenoned, which may consist of several pieces up to a total width of 18 inches, is cramped in a horizontal position upon a light sliding plate, instead of each piece being fixed separately in a vertical position, as is the case of other General Joiners.
- 4.—Tenons can be formed with shoulders of unequal lengths, by simply altering the position of one of the Tenoning blocks on its spindle.
- 5.—It will plane both sides at once, and thickness boards up to 7 inches wide, and will cut angle or double mouldings, of any pattern, in any kind of wood. In other machines of this class, one side only can be planed at a time.
- 6.—The wood being planed, is fed through by a pair of revolving feed rollers, both of which are driven, by which means a greatly increased propelling power is obtained, and the rollers being perfectly smooth, do not indent the wood.
- 7.—The top feed roller rises and falls to suit the irregularities in a rough board, and at the same time it is always exerting its full feeding power. The rate of feed can also be varied from 6 to 12 feet per minute, according to the nature of the wood being operated upon.
- 8.—Instead of the long and cumbersome fence, which in other General Joiners is required to carry the Tenoning slide, which is arranged to turn over and hang down below the table, thus enabling the Machine to be used as a Cross-cut Saw Bench without interfering with the work going on at the other end of the Machine. In other Joiners this is impracticable, on account of the difficulty in removing the fence.

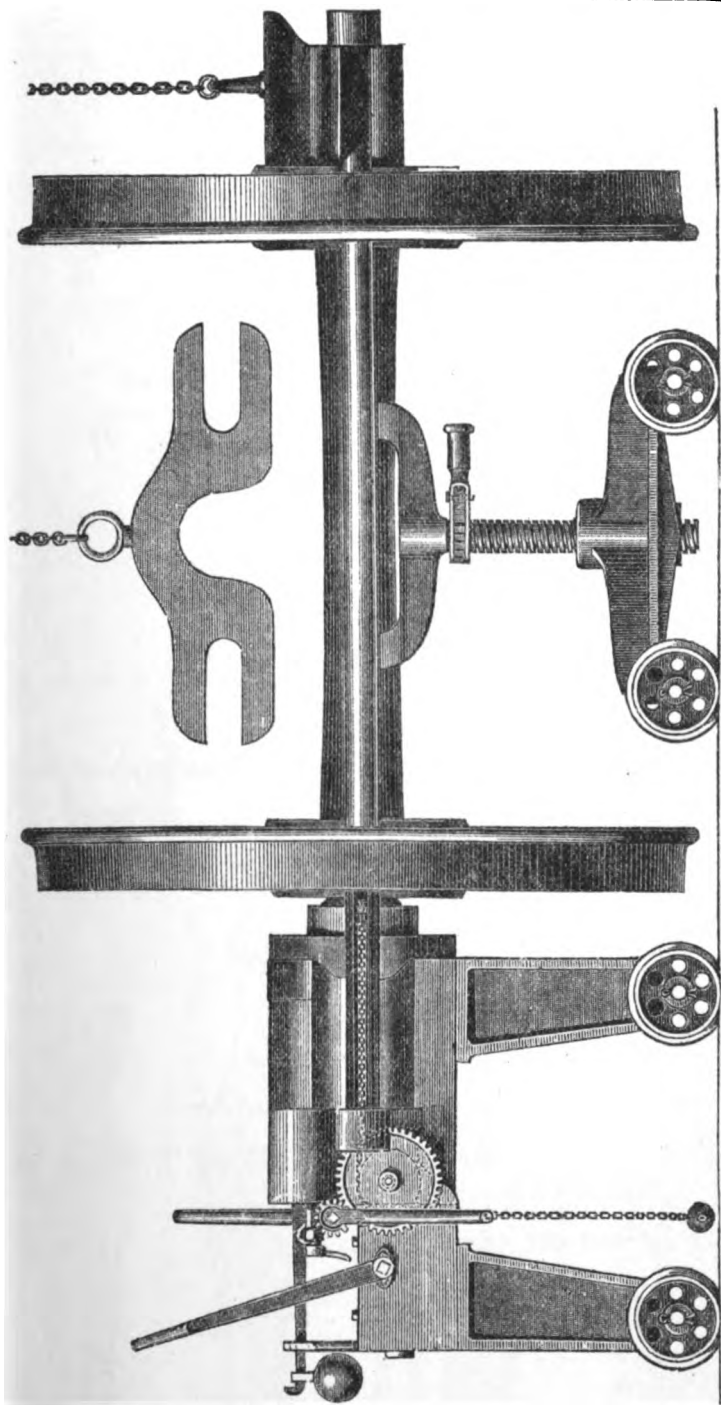
In addition to the advantages described above, and which alone would render this machine far superior to any other of its class, the Patent "General Joiner" is guaranteed to be fully as effective in performing all the other operations usually done by General Joiners.

Weight.	Average Power required.	Diameter of Pulleys on Saw Spindle.	Diameter of Pulleys on Bottom Shaft.	Speed of Saw Spindle.	Speed of Bottom Shaft.	Price. £ s. d.
25 cwt.	3 horse.	8 inches.	12 inches.	1,500 revolutions.	1,000 revolutions.	

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.



IMPROVED HYDRAULIC WHEEL PRESSES,

For forcing railway carriage, wagon, and locomotive wheels on and off their axles.
A and B are for carriage and wagon wheels, and can be arranged for wheels with solid wood centres, at £5 and £10 extra respectively (to put on or take off one wheel at a time).
D and E are for locomotive wheels, and are provided with screw elevator, as illustrated (to take off one or put on two wheels at a time).

SIZES AND PRICES.

Size.	Diameter of Ram.	Run out	Power.	Approx. Weight.	Price, with 2 Pumps.
A	7 inches.	9 inches.	50 tons.	12 cwt.	£39
B	9 "	9 "	75 "	23 "	44
C	10 "	18 "	100 "	50 "	88
D	12 "	18 "	150 "	75 "	120
E	12 "	18 "	200 "	..	155

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

Dis-
count.

No.

ENGINEERS' AND MECHANICS' HAMMERS.

8	10	12	14	16	18	20	22	ozs. each.
11/0	12/6	14/0	16/0	18/0	20/0	22/0	24/0	per doz.

Solid Cast Steel ditto, warranted, 10d. per lb.

Numbers 49A 50A 51A 52A 53A 54A 55A

SOLID CAST STEEL BOILER MAKERS' HAMMERS.

Numbers 56A 57A 58A 10d. per lb.

59 FLOGGING AND SLEDGE HAMMERS, Iron and Steel Faced, 5½d. per lb.

59A SOLID CAST STEEL FLOGGING AND SLEDGE HAMMERS, 7d. „

60 CONTRACTORS' STONE HAMMERS, Iron and Steel Faced, 5½d. „

60A Ditto ditto Solid Cast Steel 7d. „

60B MINERS' DOUBLE FACED HAMMERS, from 12 to 28 lbs., Iron and Steel Faced, 5½d. per lb.

Ditto ditto Solid Cast Steel 7d. „

BOILER SCALING HAMMERS, 1 lb. each, 12/0; 1½ lb., 15/0 per doz.; if handled, 6/0 per doz. extra.

HAMMERS OF EVERY DESCRIPTION MADE TO ORDER.

60c CAST STEEL BOILER RIVET SNAPS, 1/0 per lb.

CAST STEEL CHIPPING CHISELS.

Assorted Patterns, Flat, Half-round, Cross-cut, and Diamond Point.

4	5	6	8	10	12	14	16	oz. each.
7/0	7/0	7/0	8/0	9/0	10/0	11/0	12/0	per doz.

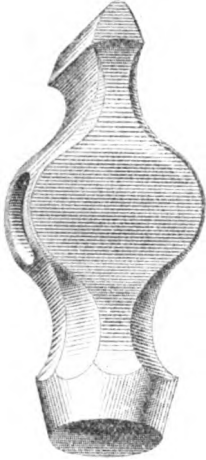
Upwards of 1 lb. each, 10d. per lb.

SOLID CAST STEEL MILL CHISELS AND MILL PICKS, 1/0 per lb.

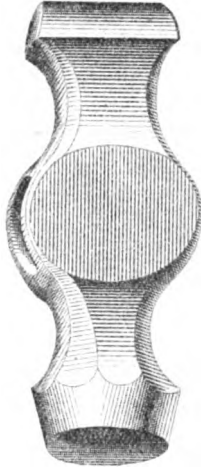
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.*Engineers & Mechanics Hammers.*

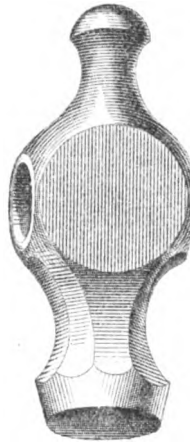
49.A.



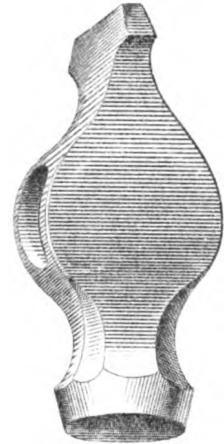
50.A.



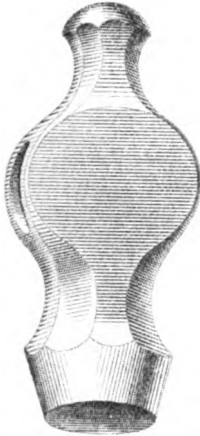
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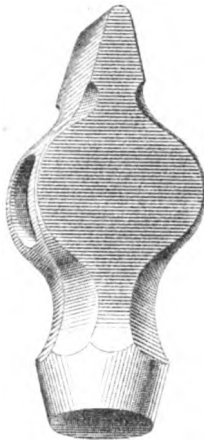
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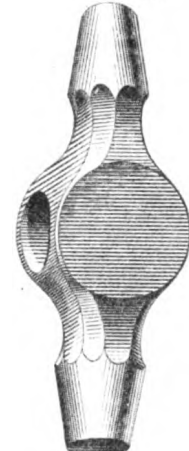
54.A.



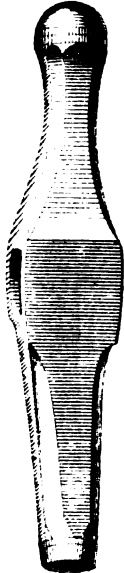
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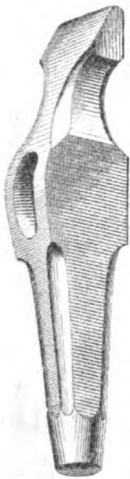
56.A.

*Boiler Maker's Hammer.*

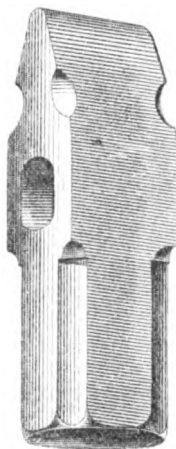
58.A.



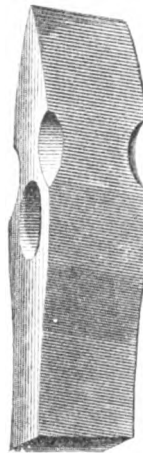
57.A.

*Boiler Maker's Hammers.*

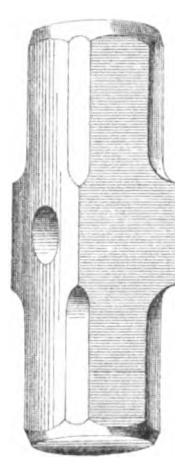
59.A.

*Sledge Hammer.*

60.A.

*Contractor's Sledge Hammer.*

60.B

*Miner's Double-faced Hammer***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

THE ILLUSTRATED SHEFFIELD LIST.

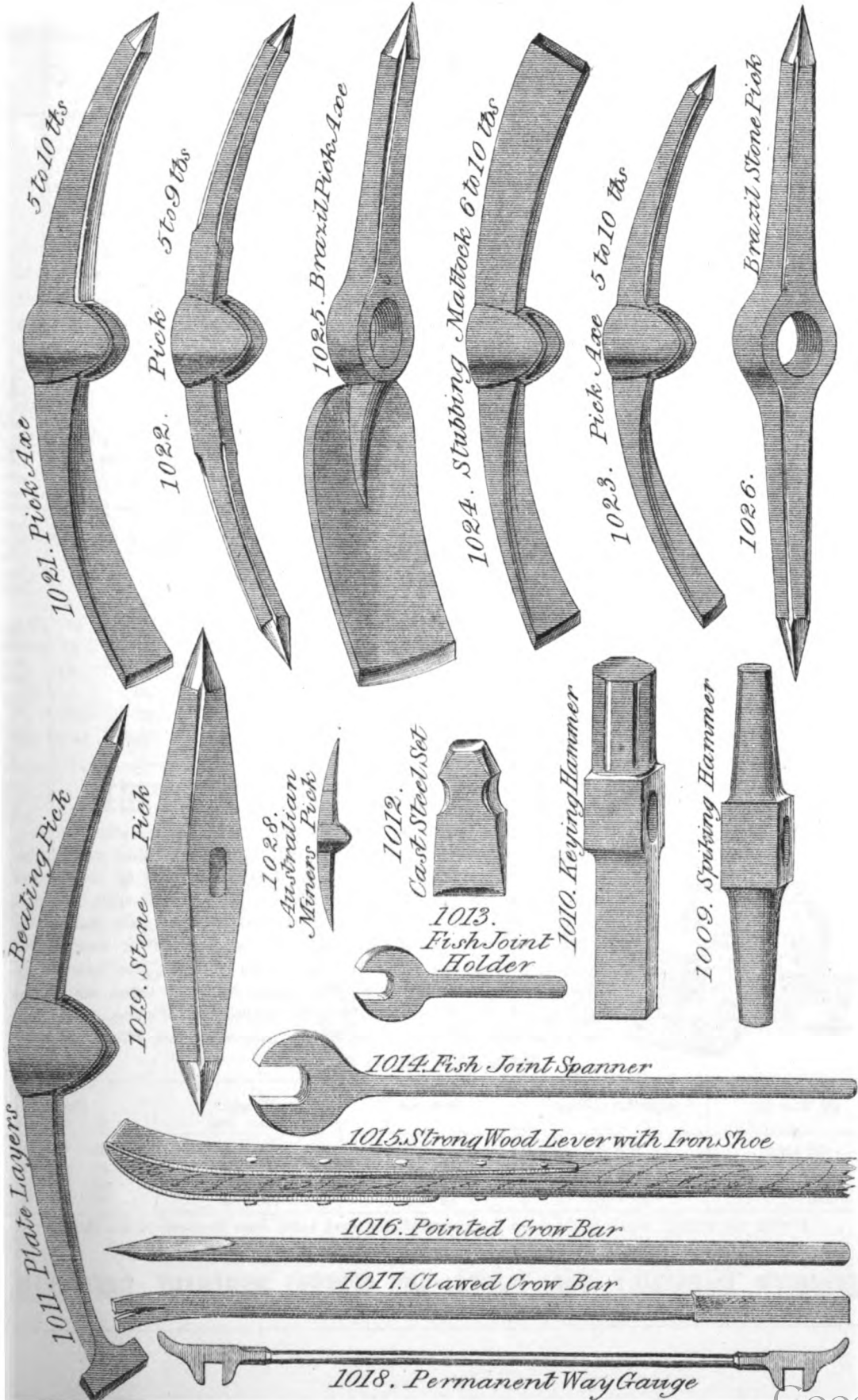
EDWARD BROOKES.

RAILWAY PLATELAYERS' AND LOCOMOTIVE ENGINE DRIVERS' TOOLS, &c.

Dis- count.	No.					
	1009	Solid Cast Steel Spiking Hammers	7d.	Iron and Steel Faced, 6d.	per lb.	
	1010	Ditto Keying Hammers	7d.	ditto	6d.	..
	1011	Platelayers' Beating Picks			33/0	per cwt.
	1011A	Solid Cast Steel ditto, solid eye			8d.	per lb.
	1012	Cast Steel Sets			10d.	..
	1012A	Ditto Punches			10d.	..
	1013	Fish Joint Holders			8d.	..
	1014	Ditto Spanners			8d.	..
			8	10	12	15 feet Shaft.
	1015	Strong Wood Levers, with iron shoe	22/6	26/0	30/0	50/0 each.
	1016	Pointed Crow Bars, both ends steeled				26/0 per cwt.
	1016A	Ditto ditto solid cast steel				30/0 ..
	1017	Clawed ditto both ends steeled				28/0 ..
	1017A	Ditto ditto solid cast steel				32/0 ..
	1018	Permanent Way Gauges (Broad Gauge, 6 ft.; Narrow ditto, 4 ft. 8½ in.)				70/0 ..
	1018A	Ditto ditto turned ends				100/0 ..
	1019	Stone Picks				38/0 ..
	1020	Ditto solid cast steel				7d. per lb.
	1021	Pick Axes, solid eye	to 5 lbs.,	44/0;	above 5 lbs.,	38/0 per cwt.
	1021A	Ditto ditto solid cast steel .....	..	84/0;	..	74/0 ..
	1022	Picks .....	..	44/0;	..	38/0 ..
	1022A	Picks, solid cast steel .....	..	84/0;	..	74/0 ..
	1023	Pick Axes .....	..	44/0;	..	38/0 ..
	1023A	Ditto solid cast steel .....	..	84/0;	..	74/0 ..
	1024	Stubbing Mattocks, solid cast steel, solid eye	to 6 lbs.,	8d.	above 6 lbs.,	7d. per lb.
	1024A	Ditto ditto iron and steeled ends .....	..	44/0;	..	40/0 per cwt.
	1025	Brazil Pick Axes			6 to 12 lbs.,	44/0 ..
	1025A	Ditto ditto solid cast steel .....			..	7d. per lb.
	1026	Brazil Stone Picks .....			..	38/0 per cwt.
	1027	Ditto ditto solid cast steel .....			..	7d. per lb.
	1027A	Screw Couplings				8d. ..
			To	2½ lbs.	3 lbs.	3½ lbs. each.
	1028	Australian Miners' Picks	20/0	21/6	24/6	per doz.
			To	2½ lbs.	3 lbs.	3½ lbs. each.
	1029	Ditto ditto electro boracic steel, blued	30/6	33/6	37/6	per doz.
	1029A	Wood Mauls, iron hooped				8/6 each.
	1029B	Pin Cutters				8d. per lb.
	1029C	Cast Steel Punches				10d. ..
	1029D	Ditto Sates				10d. ..
	1029E	Clip Jacks				120/0 each.
	1029F	Fork Bars				per pair.
		PATENT SOLID STEEL PICKS, with Interchangeable Shafts and Blades.				
	1029H	Miners' and Stone Picks—Shafts, 1/9 each; Blades, No. 1, 1/9; No. 2, 2/0 each.				
		Ditto ditto Set of 5 Blades and 1 Shaft, No. 1, 10/6; No. 2, 11/6				
	1029I	Miners' Picks, wedge pattern—Shafts, 2/0 each; Blades, No. 1, 1/6; No. 2, 1/9 each.				
		Ditto ditto Set of 5 Blades and 1 Shaft, No. 1, 9/0; No. 2, 10/0				
	1029J	Navy Picks, solid cast steel, 7½d. per lb.; Shafts, 2/0 each.				
	1029K	Platelayers' Beating Picks, solid cast steel, 8d. per lb.; Shafts, 2/0 each.				

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

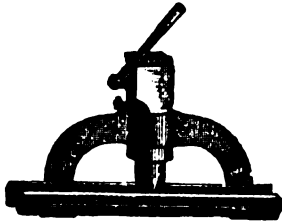


THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' TOOLS.—Continued.

HYDRAULIC RAIL BENDER OR "JIM CROW."

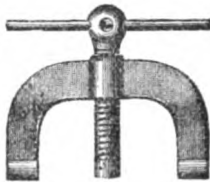


With this machine one man can do as much work as three men with the ordinary "Jim Crow," worked by a screw. The Jack swivels round in the frame, so that it can be worked in any position. It is made of best hammered scrap iron, is very simple in construction, and is fitted with Patent Pump. Can be worked in any position. When ordering, a section of the rail should be sent.

Sizes	A	B	C
Weight	100	150	200 lbs.
Suitable for bending steel rails up to	45	65	90 lbs. per yard.
Price	£8 0 0	£10 0 0	£12 0 0

RAIL BENDERS, OR "JIM CROWS."

SIZES AND PRICES, INCLUDING LEVER.

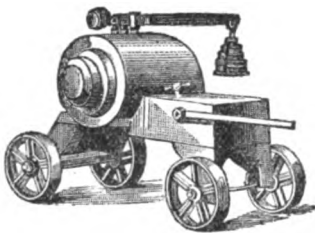


1052G.

	No. 1	2	3	4
Weight.....	60	96	140	180 lbs.
Screw	2	2½	2½	3½ inches.
Span	16	20	24	24 "
To bend iron rails.....	30	50	90	.. lbs.
Ditto steel rails	20	40	65	90 "
Price	50/0	70/0	100/0	140/0 each.

HYDRAULIC GIRDER TESTER,

With Massive Iron Cylinder and Ram, Cistern, with Patent Pump; Indicating Valve, with Lever and Weights; mounted on four wheels, with wrought-iron Axles, complete.



The common method of using the Tester is to block up two Girders horizontally the height of the ram, and sufficiently far apart to admit of the Tester being placed in the centre between them; the ends of the Girders are then braced together by means of chain or wrought-iron screwed tie rods and plates of the required strength; the weights indicating the pressure to which the Girders are to be tested, are placed on the end of the lever, and pressure applied by the pump. The ram is forced back for another test by the hand-screw sent with it.

SIZES AND PRICES.

To Test to	Diameter of Ram.	Run out	Weight. cwt. qrs.	Price. £ s. d.
50 tons.	8 inch.	10 inch.	7 2	25 0 0
100 "	10 "	10 "	11 2	38 0 0
150 "	10 "	10 "	16 3	45 0 0
250 "	12 "	12 "	27 2	70 0 0

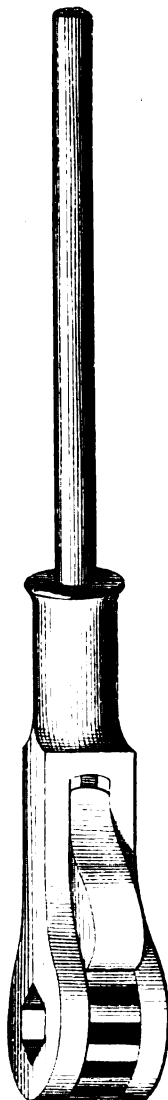
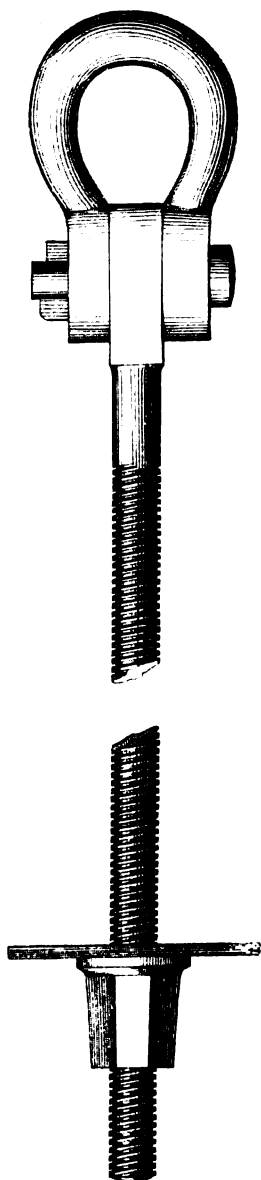
If with two Pumps, which are strongly recommended, the work being done in one-third the time,
£6 extra. Pressure Gauge, £6 extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

BEST WROUGHT IRON PUMP SCREW, WITH GUN METAL NUT.
FOR LIFTING AND CARRYING PUMP TREES, FOR COLLIERY & SINKING PURPOSES.

MADE TO ANY DIMENSIONS.



RATCHET FOR PUMP SCREW,
WITH DOUBLE PAUL RATCHET.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

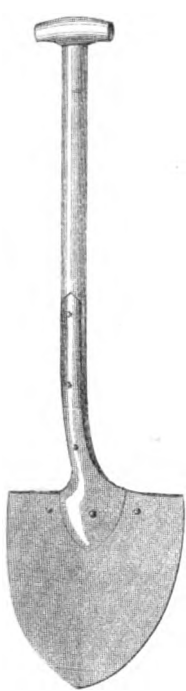
EDWARD BROOKES.

RAILWAY PLATELAYERS' AND LOCOMOTIVE ENGINE DRIVERS' TOOLS, &c.—Continued.

No.	Dis- count.	B 1	LONDON EYE TREE OR BURTON SHOVELS—														
			No. 000	00	0	1	2	3	4	5	6	7					
			8½ by 10½	8½ by 11	9 by 11½	9½ by 12	10 by 12½	10½ by 13	11 by 13½	11½ by 14	12 by 14½	12½ by 15 in.					
			30/0	31/3	32/6	33/6	35/9	38/0	40/3	42/6	45/9	49/0 doz.					
			No. 8														
			13 by 15½ 13½ by 16 14 by 16½ 14½ by 17 15 by 17½ in.														
			52/6 55/9 59/0 61/6 66/9 per doz.														
B 1A			LONDON EYE TREE OR BURTON SHOVELS, treaded, 2/0 extra to B 1, net.														
B 2			Ditto ditto ditto solid steel, 9/0 per doz. extra to B 1, gross.														
B 3			IMPROVED LABOURERS' SHOVELS, extra strong, long langets—														
			No. 1	2	3	4	5	6	7	8	9	10	11	12			
			9½x12	10x12½	10½x13	11x13½	11½x14	12x14½	12½x15	13x15½	13½x16	14x16½	14½x17	15x17½ in.			
			34/0	36/0	38/0	40/0	42/0	45/0	48/0	51/0	54/0	57/0	60/0	64/0 doz.			
B 4A			Improved ditto, solid steel, 8/0 per doz. extra, gross.														
B 5			STRONG GRAVEL OR NAVVIES' SHOVELS, long strap, crutch tree—														
			No. 1	2	3	4	5	6	7	8	9						
			10½ by 12	11 by 12½	11½ by 13	12 by 13½	12½ by 14	13 by 14½	13½ by 15	14 by 15½	14½ by 16 in.						
			38/0	40/3	42/6	44/9	47/0	50/3	53/9	55/6	60/3	doz.					
B 6			Ditto ditto ditto solid steel, same size as B 5, 9/0 per doz. extra, gross.														
			No. 1														
			9½ by 18 9½ by 19 10 by 20 in.														
B 10			LOCOMOTIVE OR STOKERS' SHOVELS, strapped over crutch handles 67/0 71/6 74/0 doz.														
			If solid steel, 9/0 per doz. extra, gross.														
			No. 1														
			7½ by 11½ 8 by 12 8½ by 12½ 9 by 13 in.														
B 30			EYE TREE THICK TOP SPADES..... 40/3 42/6 44/9 47/0 doz.														
			No. 0														
			7 by 6 by 11 7½ by 6½ by 11½ 8 by 7 by 12 8½ by 7½ by 12½ 9 by 8 by 13 in.														
B 34			TAPER THICK TOP SPADES 35/9 38/0 40/3 42/6 44/9 doz.														
			4 by 6½ 4½ by 7 5 by 7½ in.														
B 41			RAILWAY POINTS CLEANER, OR TOY SPADES..... 20/0 22/0 24/0 doz.														
			No. 1														
			6 by 11½ 6½ by 12 7 by 12½ in.														
B 44			GRAFTING TOOLS..... 44/6 47/3 50/0 doz.														

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



B 5



B 8



B 38 14-5



B 84



B 44



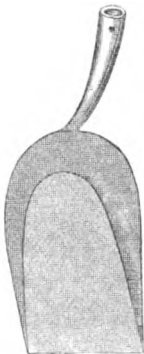
B 30



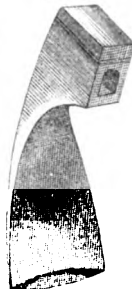
B 1



B 10



E 61

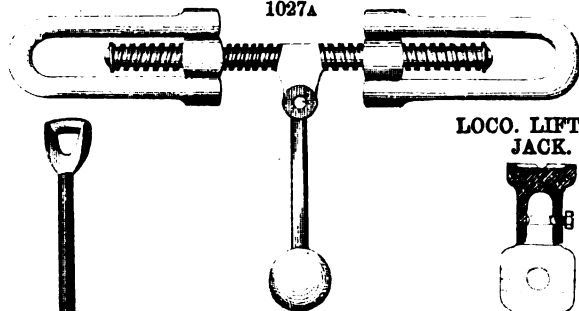


581f

Cast Steel
Platlayers' Adze.

SCREW COUPLINGS.

1027A



LOCO. LIFTING JACK.

1027B

GREASE KNIFE.

1027B



B 41

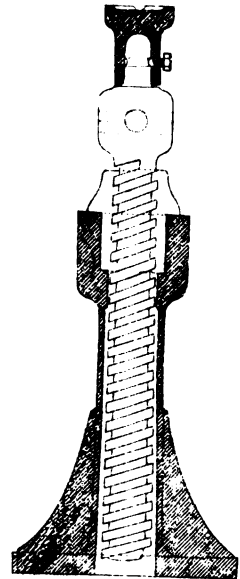
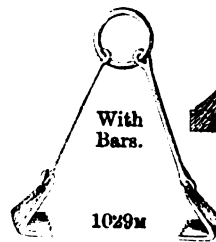
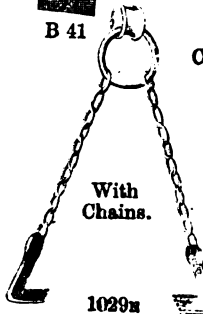
CAN HOOKS.

With Chains.

1029m

With Bars.

1029m



1043A

Crane Wool Hook.

HAND WOOL HOOKS.



1029m

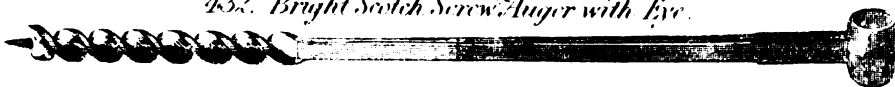


1029s



1029r

432. Bright Scotch Screw Auger with Eye.



1029p

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

MINING AND MASONS' TOOLS, TIMBER WEDGES, &c.

Dis- count.	No.								
	59A	Stone Hammers, double chisel end, iron and steeled, 5 to 14 lbs.	6d.	per lb.					
	59B	Ditto ditto solid cast steel ditto	7d.	"					
	59C	Ditto chisel and point end, iron and steeled ditto	6d.	"					
	59D	Ditto ditto solid cast steel ditto	7d.	"					
	59E	South American Mining Hammers, all iron, 7 to 36 lbs.	3½d.	"					
	59F	Ditto ditto iron and steeled ditto	6d.	"					
	59G	Ditto ditto solid cast steel ditto	7d.	"					
	59H	Double Faced Chequered Stone Hammers, solid cast steel, 4 to 7 lbs.	1/0	"					
	59J	Stone Dressers' Cross Paned Hammers, chisel ends, iron and steeled, 5 to 14 lbs.	6d.	"					
	59K	Ditto ditto ditto solid cast steel ditto	7d.	"					
	59M	Stone Breakers' Hammers, solid cast steel, 1½ to 3 lbs.	9d.	"					
	59N	Square Knapping Hammers ditto 1½ to 2½ lbs.	9d.	"					
	59P	Miners' Hammers, pick end, iron and steel, 3 to 12 lbs.	6d.	"					
	59Q	Ditto ditto solid cast steel ditto	8d.	"					
	59R	Stone Breakers' Hammers, octagon face, iron and steeled, 2 to 7 lbs.	6d.	"					
	59S	Ditto ditto ditto solid cast steel ditto	8d.	"					
	59T	Stone Hammers, with pick point, iron and steeled, 5 to 14 lbs.	6d.	"					
	59U	Ditto ditto solid cast steel ditto	7d.	"					
	59V	Miners' Hammers, chisel end, iron and steeled, 3 to 12 lbs.	6d.	"					
	59W	Ditto ditto solid cast steel ditto	7d.	"					
	59X	Spanish Stone Pick, iron and steeled, 5 to 8 lbs.	6d.	"					
	59Y	Ditto solid cast steel ditto	7d.	"					
	59Z	Spanish Miners' Hammers, octagon, all iron, 7 to 12 lbs.	3½d.	"					
	59ZA	Ditto ditto iron and steeled face, 7 to 12 lbs.	6d.	"					
	59ZB	Ditto ditto ditto solid cast steel, 7 to 12 lbs.	7d.	"					
	60A	Spanish Massetts, all iron, 15 to 36 lbs.	3½d.	"					
	60B	Ditto iron and steeled face, 15 to 36 lbs.	6d.	"					
	60C	Ditto solid cast steel, 15 to 36 lbs.	7d.	"					
	60D	Spanish Stone Axe, iron and steeled ends, 5 to 8 lbs.	6½d.	"					
	60E	Ditto ditto solid cast steel, 5 to 8 lbs.	8d.	"					
	60F	Square Chipping Hammers, iron and steeled face, 5 to 8 lbs.	6d.	"					
	60G	Ditto ditto solid cast steel, 5 to 8 lbs.	7d.	"					
			2	2½	3	3½	4	lbs.	
	60H	Stone Masons' Hand Hammers, octagon point, iron and steel	6½d.	6½d.	6d.	6d.	6d.	per lb.	
	60HA	Ditto ditto ditto solid cast steel	7½d.	7½d.	7d.	7d.	7d.	"	
	60J	Ditto ditto chisel point ditto	7½d.	7½d.	7d.	7d.	7d.	"	
	60K	Ditto ditto ditto iron and steel	6½d.	6½d.	6d.	6d.	6d.	"	
	60M	Ditto ditto solid cast steel	7½d.	7½d.	7d.	7d.	7d.	"	
	60N	Ditto ditto pointed, iron and steel	6½d.	6½d.	6d.	6d.	6d.	"	
	60P	Ditto ditto ditto solid cast steel	7½d.	7½d.	7d.	7d.	7d.	"	
	60Q	Bricklayers' Paving Hammers, 24/0 per doz.; if solid cast steel, 36/0 per doz.							
	60R	Ditto Line Pins, 10/0 per doz.							
			No. 1	2	3				
			5½	6½	7½	lbs. each.			
	60S	Stone Lifting Lewishes	13/0	15/6	18/0	each.			
	60T	Stone Masons' Chisels, ½ to 3½ in. on face, cast steel				10d.	per lb.		
	60U	Ditto ditto ditto				10d.	"		
	60V	Ditto ditto ditto				10d.	"		
	60W	Mill Wedges, all iron, 6 to 21 in. long				36/0	per cwt.		
	60X	Ditto ditto ditto narrow fuller'd (if steeled, 46/6)				39/0	"		
	60Y	Wood Wedges ditto with ½ in. hole (if steeled, 46/6)				39/0	"		
	60XX	Ditto ditto with rings (if steeled, 51/0)				44/0	"		
	60Z	Ditto ditto fuller'd or fluted (if steeled, 46/6)				39/0	"		
	77B	Ditto ditto plain (if steeled, 44/6)				37/0	"		
	77C	Timber Dogs				48/0	"		
	77D	Ditto				48/0	"		
	77E	Monkey Drawer				7/0	each.		

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

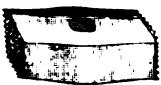
59A



59C



59R



59H



59J



59V



59N



59P



59R



59T



59V



59X



59Z



60A



60B



60F



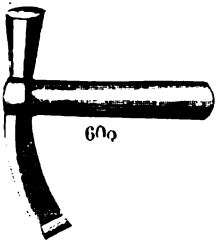
60H



60I



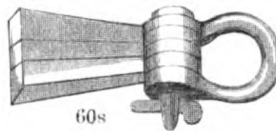
60N



60Q



60R



60S



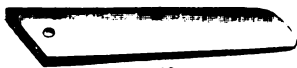
60T



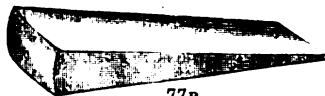
60U



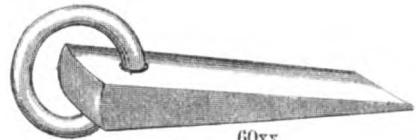
60V



60Y



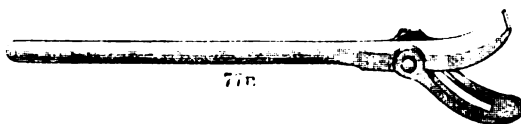
77R



60XX



77C



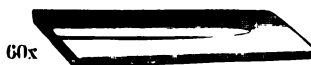
77D



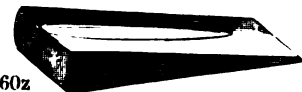
77E



60W



60X



60Z

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

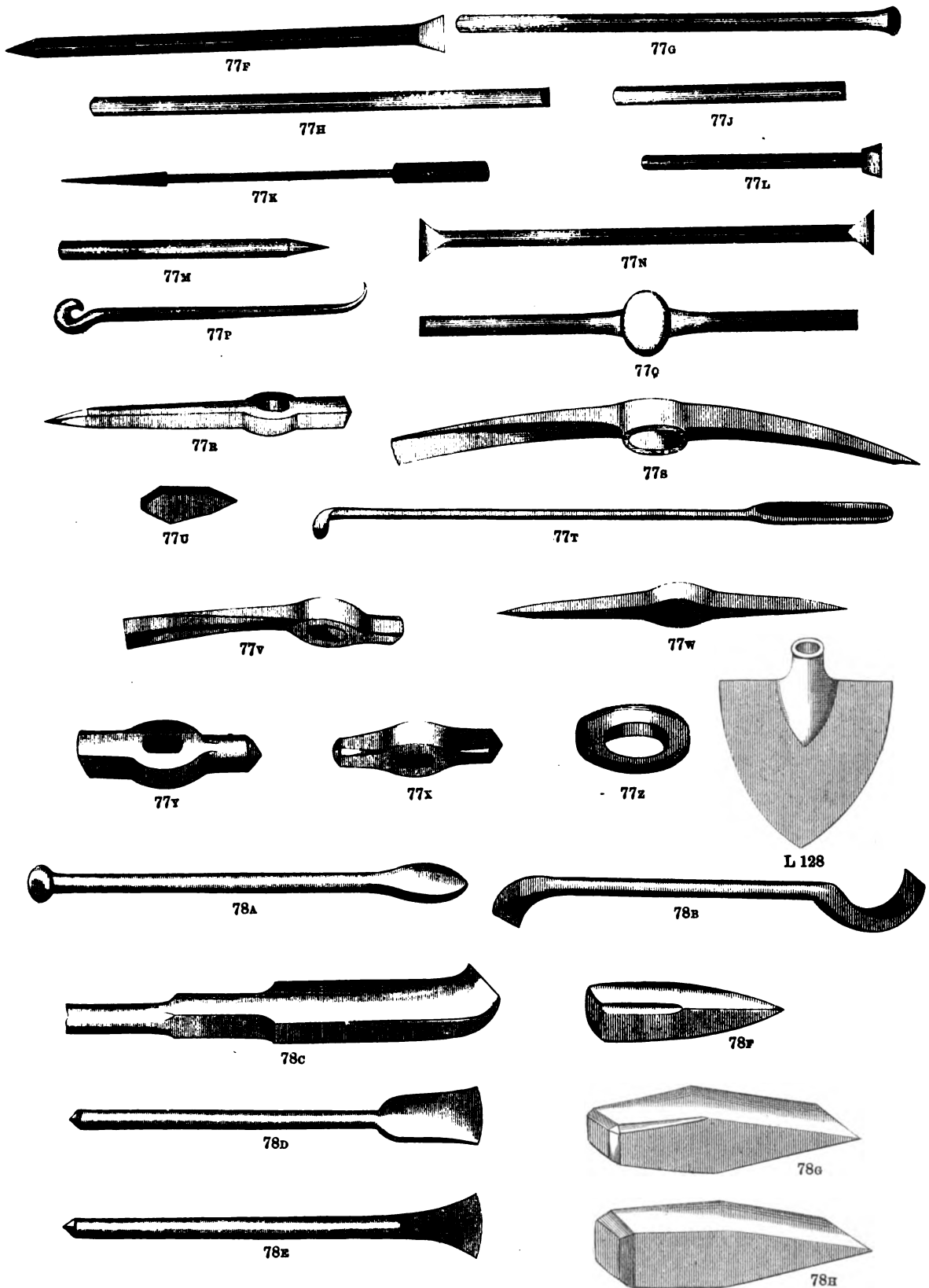
EDWARD BROOKES.

MINING AND MASONS' TOOLS, CROW BARS, &c.

Dis- count.	No.	
	77F	Mining Bars, 3 ft. 6 in. long, steeled, 40/0; if solid steel, 46/0 per cwt.
	77G	Ditto Rammers and Stemmers, 3 ft. 6 in. long, with copper ends. per doz.
	77H	Ditto Borers, for blasting.
	77J	Ditto Drills, chisel end.
	77K	Ditto Spoons.
	77L	Ditto Rammers, or Tamping Bars, iron end.
	77M	Ditto Drills, pointed.
	77N	Ditto Borers, or Jumpers, chisel ends.
	77P	Ditto Pickers.
	77Q	Ditto Borers, or Jumpers, with swell.
	77QA	Miners' Kibbles, steel plates, angle iron round the bottom, 30 in. deep, 23 in. diameter in centre, 20 in. diameter top and bottom, with iron swivel cross handle.
	77R	Mining Underground Picks, to 6 lbs. each, 7d.; above 6 lbs., 6d. per lb.
	77RA	Ditto ditto solid cast steel, to 6 lbs. each, 8d.; above 6 lbs., 7d. per lb.
	77S	Ditto Picks, with solid eye, 6 to 9 lbs. each, 44/0 per cwt.
	77SA	Ditto ditto solid cast steel, 6 to 9 lbs. each, 7d. per lb.
	77T	Ditto Scrapers, gouge end, 20/0 per doz.
	77U	Ditto Gads, solid cast steel, to 7 lbs. each, 1/0 per lb.
	77V	Ditto Single Service Picks, solid cast steel, 5, 6, and 7 lbs. each, 7d. per lb.
	77W	Ditto Surface Picks, solid cast steel, 3, 3½, 4, and 4½ lbs. each, 7d. per lb.
	77X	Miners' Ragging Sledge Hammers, 6d.; solid cast steel, 7d. per lb.
	77Y	Ditto Sledge Hammers, 6d.; solid cast steel, 7d. per lb.
	77Z	Ditto Mallets or Hammers, 56/0 per doz.
		Ditto ditto solid cast steel, 1/0 per lb.
		No. 0 1 2 3 4 5
		9½ by 11½ 10 by 12 10½ by 12½ 11 by 13 11½ by 13½ 12 by 14 in.
B127	Cornish Mining Shovels.....	16/3 17/6 18/6 19/9 20/9 22/0 doz.
	If steeled, 4/0 per doz. extra, net.	
B128	Ditto ditto steel faced	30/0 32/6 34/9 37/0 39/3 41/6 „
	If ground backs, 3/0 per doz. extra, net.	
78A	Spear End Bars, 36/0; if solid cast steel, 44/0 per cwt.	
78B	Pinching Bars, 36/0; ditto	44/0 „
78C	Heavy Quarrying Bars, 6 to 10 ft., from 20 to 500 lbs. each, 28/0; if solid cast steel, 32/0 per cwt.	
78D	Planting Bars, spade end, 30/0; if solid cast steel, 34/0 per cwt.	
78E	Ditto chisel end, 30/0; ditto	34/0 „
78F	Road Wedges, steel point, 5d.; if solid cast steel, 7d. per lb.	
78G	Stone ditto taper head, all iron, 4d.; if solid cast steel, 7d. per lb.	
78H	Ditto ditto square head, ditto 4d.; ditto	7d. „

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

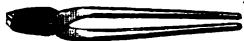
EDWARD BROOKES.

BLACKSMITHS' TOOLS, PLOUGH IRONS, PLOUGH SOLES, AND BULLOCK BOWS.

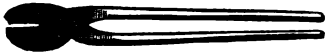
Dis- count.	No.								
	78j	Blacksmiths' Tongs, close bits						8d.	per lb.
	78k	Ditto $\frac{3}{4}$ tongs, assorted sizes						7d	"
	78m	Ditto hollow bits ditto						7d.	"
	78n	Ditto hollow side bits, assorted sizes						8d.	"
	78p	Blacksmiths' Fire Rakes						6d.	"
	78q	Ditto Fire Pokers						6d.	"
	78r	Ditto Fire Shovels						6d.	"
	78s	Ditto Punches, all steel						10d.	"
	78t	Ditto Cold Chisels, all steel, 1 lb. each and above						10d.	"
	78u	Ditto Round Mandrels, all steel ditto						10d.	"
	78v	Ditto Square ditto ditto ditto						10d.	"
	78w	Ditto Round Punches ditto ditto						10d.	"
	78x	Ditto Square ditto ditto ditto						10d.	"
	78y	Ditto Metal Tye Iron Pan, 24 by 18 by 18 in.							per cwt.
	78z	Ditto Metal Water Pan, or Slack Trough, 36 by 24 by 24 in.							"
	79a	Metal Tye Irons						18/0	"
			12	13	14	15	16	18	20 in.
	79b	Wrought Iron Water Tye Irons	16/0	18/0	20/0	22/0	23/0	25/6	28/0 each.
	79c	Blacksmiths' Cold Sets, all steel							7d. per lb.
	79d	Ditto Hot Sets ditto							7d.
	79e	Ditto Top Fullers, steeled					8d.	solid steel.	10d.
	79f	Ditto Bottom Fullers, steeled					8d.	ditto	10d.
	79g	Ditto Top Rounding Tools, or Swages, assorted, $\frac{1}{2}$ to 2 in., solid steel							10d.
	79h	Ditto Bottom ditto ditto ditto							10d.
	79j	Russian Ploughs, self-colour							41/0 per cwt.
	79k	Ditto Heart Ploughs, self-colour							45/0 "
	79m	Plough Soles, 5 to 8 lbs., iron							29/6 "
	79n	Ditto 5 to 6 lbs., steeled							36/0 "
	79p	Ditto ditto cast steel, best black japanned							62/0 "
							2 $\frac{1}{2}$	2 $\frac{3}{4}$	3 lbs. each.
	79q	Ditto small iron					14/0	17/0	20/0 per doz.
	79r	Spanish Triangular Ploughs							108/0 per cwt.
	79s	Havanna Barrel Ploughs, self-colour, with or without rings							38/6 "
		Ditto ditto ditto if steeled							45/0 "
		Ditto ditto ditto cast steel, blued							56/0 "
	79t	Peruvian Barrel Ploughs, self-coloured							30/0 "
		Ditto ditto ditto if steeled							40/0 "
		Ditto ditto ditto cast steel, blued							54/0 "
	79v	Indian Spades, or Coffee Diggers, self-colour, open sockets, all iron							15/0 per doz.
		Ditto ditto ditto if steeled							18/0 "
			3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	4 $\frac{1}{2}$	4 $\frac{1}{2}$	5 lbs.
	79w	Coffee Diggers, japanned	18/0	18/6	19/0	19/6	20/0	20/6	21/0 22 0 per doz.
	79x	Bullock Bows							38/6 per cwt.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



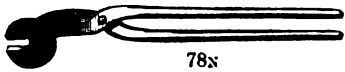
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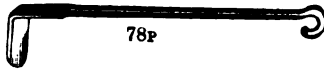
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78m



78n



78p



78q



78r



78s



78t



78u



78v



79a



79b



79e



79f



79c



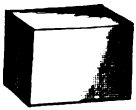
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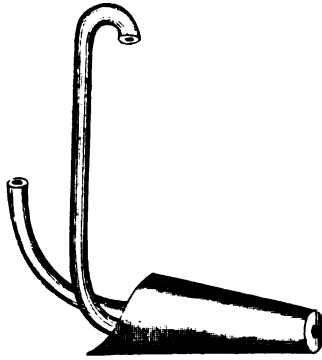
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78x



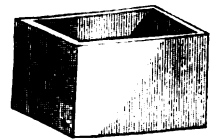
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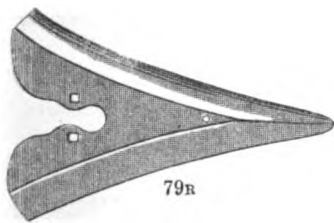
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79a



78z



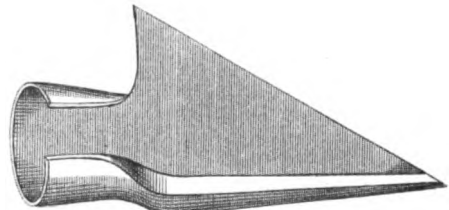
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79q



79n



79j



79s



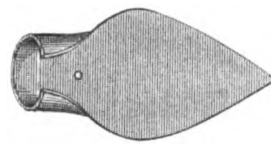
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79p



79m



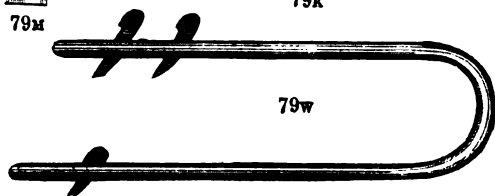
79k



79u



79v



79w

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

BROOKES'S PATENT SELF-ACTING LUBRICATOR,

For Steam Engine Cylinders of every description, also
for Necks and Bearings of Main Shafts, &c.

NO TAPS! NO VALVES! NO LEAKAGE!

NO REPAIRS REQUIRED!

EFFECTING A SAVING OF 50 per cent. IN TALLOW.

The very extensive demand for this LUBRICATOR, and the opinion of eminent Engineers who have it in use, render any remarks of the great advantages it possesses almost needless.

It may justly be pronounced the most efficient, cleanly, and economic Lubricator now in use.

The simplicity of the construction (having no Taps or Valves, which is the great objection to other Lubricators, claiming to be an improvement over the common Tallow Cup), and the perfect ease with which it can be regulated to supply a drop of tallow with each stroke of the Engine (or more, if necessary), and its ceasing to supply tallow when the steam is shut off, at once commends it to the estimation of all Engineers.

This Lubricator is applicable to, and may be had in sizes adapted for all kinds of Stationary, Locomotive, Marine, Portable, Pumping, Winding, or other Steam Engines and Steam Hammers.

The Slides of Locomotive Engines, and the Necks and Bearings of the Main Shafts, may also be regularly lubricated, where Oil is used in lieu of Tallow, by leaving open the Feed Plug to admit Atmospheric instead of Steam Pressure, and will give one drop at once, at any interval of time (or more, if required), and is therefore especially adapted for Marine or other Shafts, to which access may be difficult.

Lubrication, to be perfect, must be continuous, which is obtained by this Lubricator, and the advantages of a perfect method of Lubrication, and the saving of "wear and tear" to the Cylinder and Piston, Slide Valves, and other working parts, are at once obvious.

The requirements of the Engine once ascertained, the Lubricator may be charged with Tallow or Oil, and the Engineer need devote no attention to it after the Indicator is adjusted. They are also made with Glass Gauges attached.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

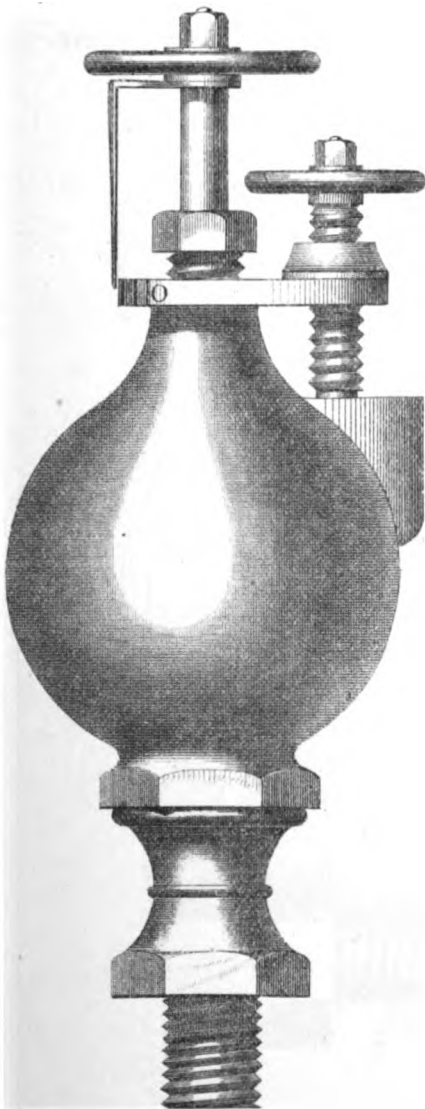
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

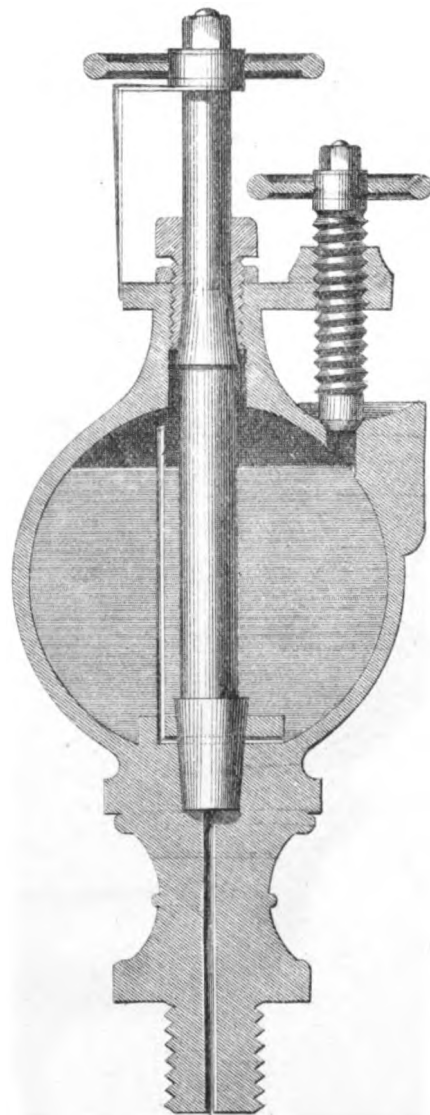
BROOKES'S PATENT SELF-ACTING LUBRICATOR

FOR STATIONARY ENGINES AND STEAM HAMMERS.

ELEVATION.



SECTION.



REDUCED PRICES.

To contain	$\frac{1}{4}$	$\frac{1}{2}$	1	pint.
	22/6	30/0	40/0	each.
With Gauge	..	42/0	55/0	..

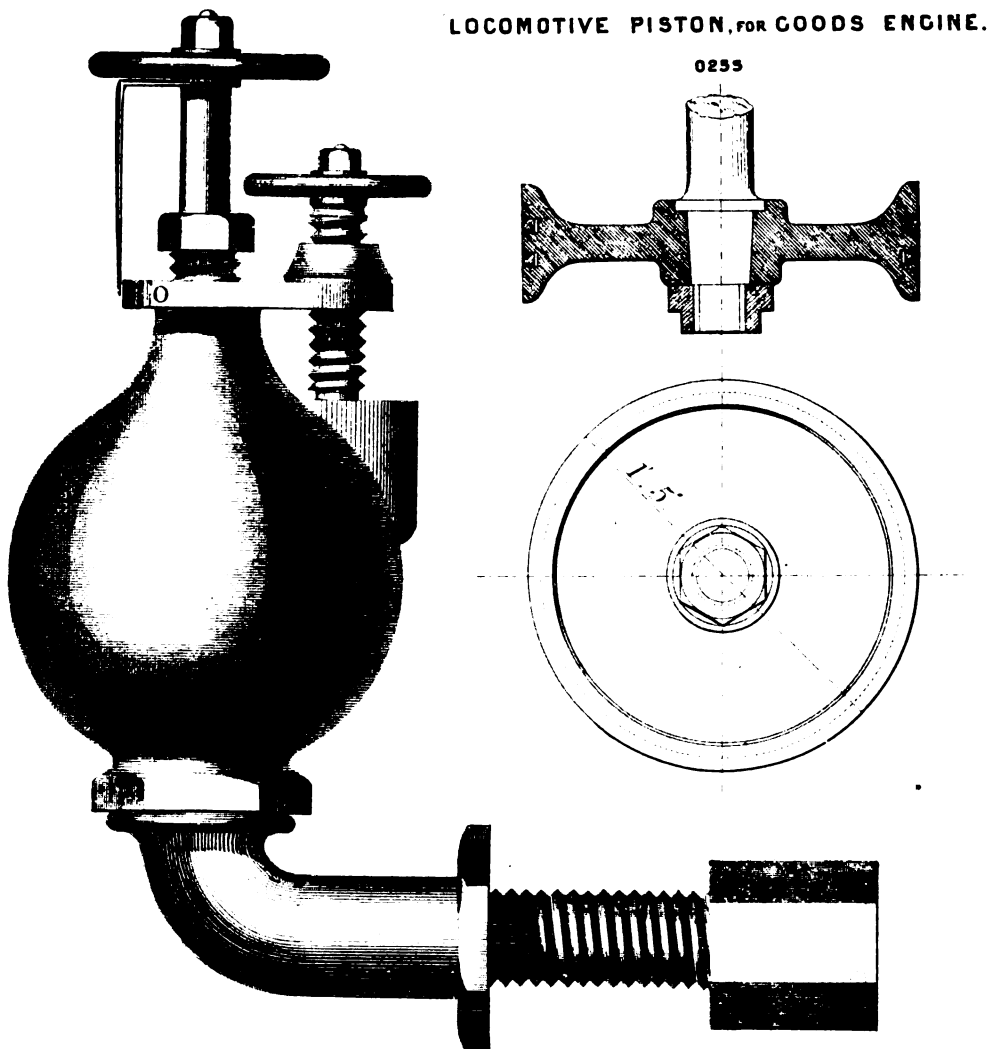
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

BROOKES'S PATENT SELF-ACTING LUBRICATOR

FOR LOCOMOTIVE ENGINES.



REDUCED PRICES.

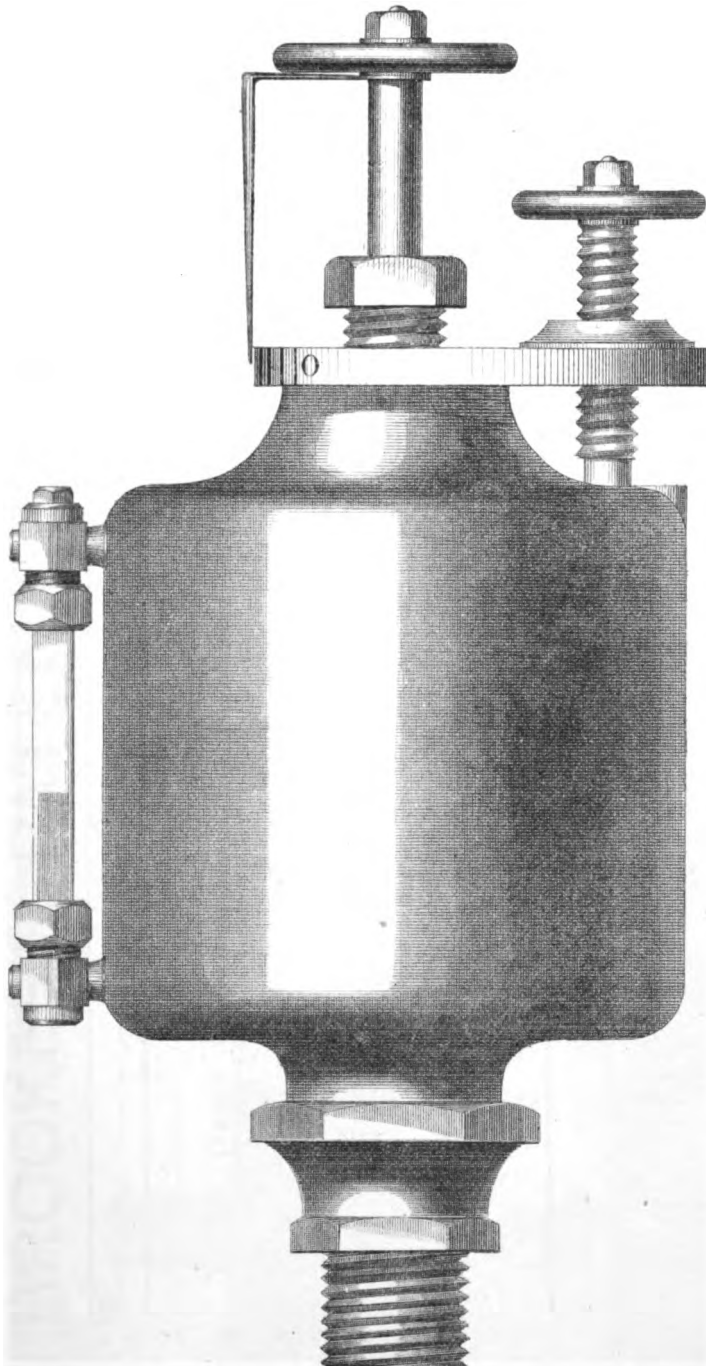
To contain	$\frac{1}{2}$	1	pint.
	40/0	55/0	each.
With Gauge	52/0	70/0	„

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

BROOKES'S PATENT SELF-ACTING LUBRICATOR FOR MARINE ENGINES.

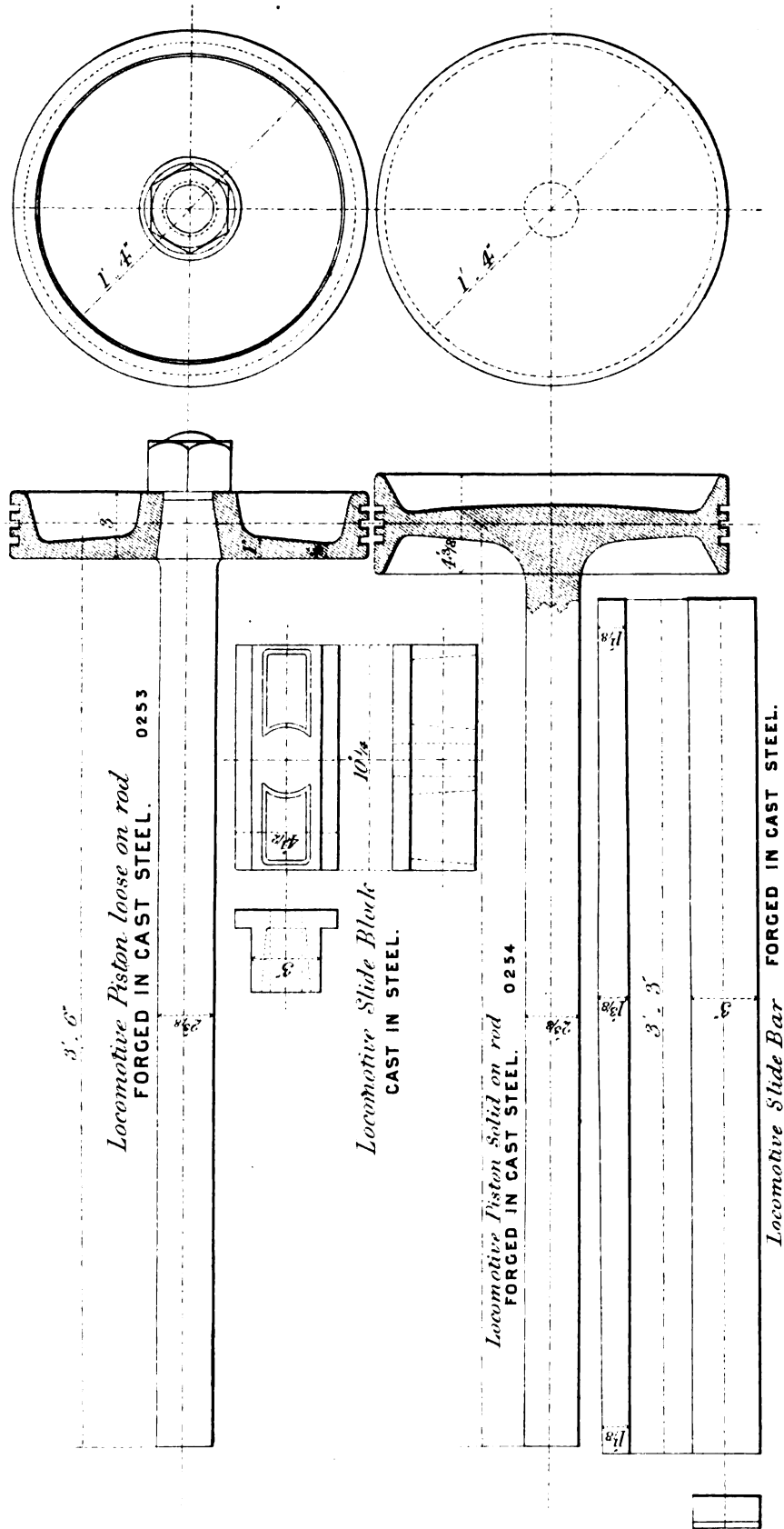


REDUCED PRICES.

To contain	2	3	4	pinta.
	65/0	85/0	95/0	each.
With Gauge	80/0	95/0	110/0	"

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

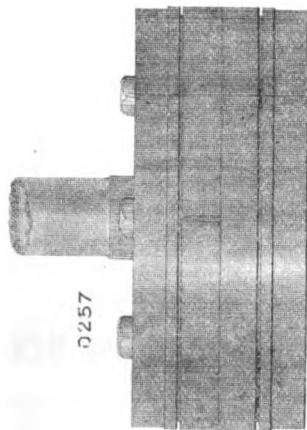
EDWARD BROOKES.



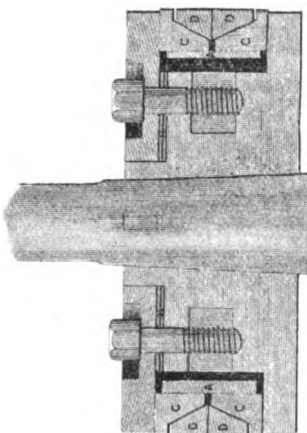
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

By Her Majesty's Royal Letters Patent.

BROOKES'S PATENT METALLIC PISTON.



Side View



Section

This Piston, now extensively used, possesses advantages not obtained by any Pistons hitherto introduced to public notice. It will **WEAR THREE TIMES LONGER**, and realise a greater saving in coal than any other.

The arrangement and application of the Metallic Rings will wear a much longer time than any previously used, before requiring re-adjusting, being held to their proper position by an internal steel ring (A), and can readily be adjusted, as the Piston or Cylinder wears, having three Metallic Plates (B) on the Piston Block, by the removal of which, the two Rings (C) are brought more closely together, and the two external Rings (D) are expanded to the required dimensions as perfect as when new, with the further advantage of having a good face worn on the Rings.

THE ESCAPE OF STEAM DURING THE STROKE IS IMPOSSIBLE,

And the friction is much less than in Metallic Pistons now in use, consequently a great saving is effected in *Fuel, Durability, and Power.*

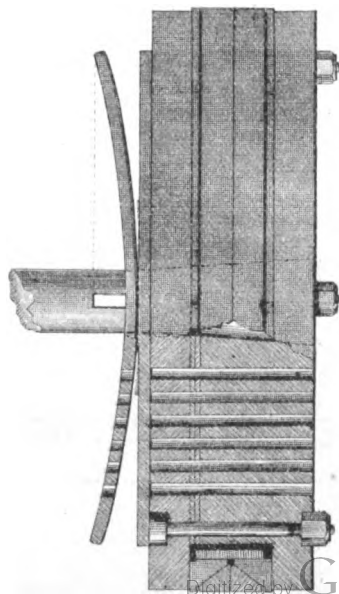
PATENT PISTONS, 20/0 per inch. diam.

BROOKES'S PATENT METALLIC AIR PUMP BUCKET

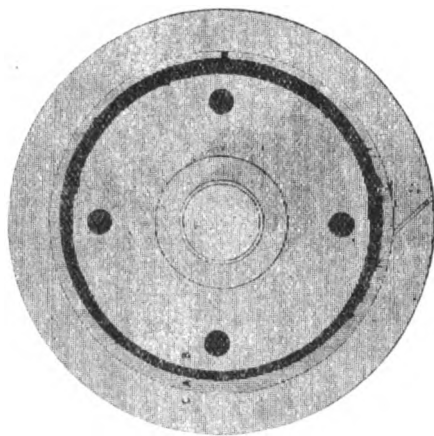
Is unequalled for efficiency and durability; the inconvenience and loss of time occasioned by having frequently to stop the Engine to pack the Buckets now generally in use, is altogether avoided; which, with the entire **SAVING OF THE COST OF HEMP**, for Packing, and Labour, soon pays the cost of the Bucket; a much greater Vacuum is obtained at a considerably less pressure.—Price, 27/0 per inch diameter.

Brookes's Patent Metallic Lift Bucket, for Pumps,

With Gun Metal Rings, FACING, AND LIDS, answers the purpose better than Gutta Percha or Leather Buckets, and its durability renders it much less costly.—Price, 27/0 per inch diameter.



Section of Air Pump Bucket.



Plan without Cover.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Names of some of the Firms who have been supplied with either the
Patent Piston, Buckets, or Patent Self-acting Lubricator.

Messrs.

Allott, Thirlwell, and Co., East Riding Iron Works, Hull
Ashberry, Railway Carriage and Iron Works, Limited,
Manchester
Avonside Engine Works, Limited, Bristol
Andrew, Taylor, and Stephens, Engineers, London
Addenbrook, Smith, and Pidcock, Rough Hey Iron Works,
Darlaston
Appleby and Co., Renishaw Iron Works, near Chesterfield
Armitage, W. and Co., Owlerton Bridge Works, Sheffield
Askham John, Broad Lane Works, Sheffield
Arnold, John, Boiler Maker, Chesterfield
Adams, J. and W. Y., Dundee
Austin, C. D., Newcastle-on-Tyne
Andrew and Ruffles, London
Aston, W. H., Zetland Mills, Huddersfield
Atkinson Brothers, Victoria Wheel and Axle Works, Leeds
Armitage, G., Water Lane Dye Works, Halifax
Ashton, T. A., Norfolk Street, Sheffield
Barber, Walker, and Co., Eastwood Collieries, near
Nottingham
Britannia Iron Company, Middlesbro'
Bell, Lazarus, Sheffield
Brown, Sir John and Co., Limited, Atlas Works, Sheffield
Bury and Co., Limited, Regent Works, ..
Butcher, Samuel and Co., Rutland Works, ..
Beardshaw, J. and Sons, Baltic Steel Works, ..
Bassett, G. and Co., America Works, ..
Beckett, Alfred, Brooklyn Works, ..
Brookes and Crookes, Atlantic Works ..
Booth, H. C., Norfolk Works, ..
Benton and Woodiwiss, Contractors, ..
Beck and Candlish, Machinists, ..
Bradley, William, Soho Brewery, ..
Bacon, Stephen, Hollis Croft, ..
Bombay, Boroda, and Central Indian Railway Company,
London
Bristol and Exeter Railway Company, Bristol
Butlin, Thomas and Co., East End Iron Works, Wellingboro'
Brooks, Samuel, Machinist, Manchester
Booth, Joseph, Timber Merchant, Eckington
Badger, A. and Son, Fallswood Colliery, Dronfield
Barker, W., Colliery Owner, Coppul, near Wigan
Brancher, W., .. Orrel, ..
Blundell and Co., .. Pemberton, ..
Briscoe, W. and Son, Wolverhampton
Bunting, John and Co., Brampton Brewery, near Chester-
field
Beard, J., Bilston, Staffordshire
Barnes, Joseph, Brunswick Foundry, Liverpool
Butler, Pitts, and Co., Stanningley Iron Works, near Leeds
Brownlie, James, Glasgow
Bass and Co., Brewers, Burton-on-Trent
Brown and Clarke, Bradford
Birks, P. P. and Sons, Handsworth Woodhouse
Berry, Alexander, Manufacturers, Dundee
Bainbridge, E. M. and Partners, West Staveley Colliery,
near Chesterfield
Brazil and River Plate Steam Ship Company, Liverpool
Bailey and Leatham, Steam Ship Owners, Hull
Brownlow, Lumsden, and Co., Steam Ship Owners, Hull

Messrs.

Berry Brothers, Castleton Foundry, Leeds
Buckton, Richard and Sons, Hunslet Linen Works, Leeds
Beeston Colliery Company, Beeston, near Leeds
Bennett, William and Sons, Seed Crushers, Grimsby
Brown, John, River Head Saw Mills, Grimsby
Bourne and Son, Denby Pottery, Denby, near Derby
Barnsley Gas Company, Barnsley
Barker, H. and S., Don Iron Works, Mexbrough
Butterworth and Roberts, Yew Tree Mills, Holmfirth
Bower and Smith, Brockholes, near Huddersfield
British Gas Company, Limited, Hull
Beattie, William and Sons, Saw Mills, Edinburgh
Bernard and Co., Distillery, Leith
Bacon, William and Co., Acklam Iron Refinery, Middlesbro'
Berry and Goodacre, Coalville Mills, near Leicester
Brammall and Bedford, Sheffield
Buckton and Stephenson, Wortley, near Leeds
Beardsall, F. A., Market Place, Barnsley
Brownhill, H. J. J., Sheffield
Brown, Bailey, and Dixon, Sheffield
Black, Hawthorn, and Co., Gateshead-on-Tyne
Brookes, William and Sons, Attercliffe
Bradley and Craven, Wakefield
Brown, George, Boat Builder, Willington, Hull
Beckwith, E. and Co., Tool Warehouse, Sunderland
Brampton Colliery Co., Brampton, near Chesterfield
Campbell, Thomas and Son, Dolphin Foundry, Leeds
Clayton, J., Tanner, Chesterfield
Clegg, J. W. and Co., Thorpe Hall Colliery, Leeds
Cammell, Chas. and Co., Limited, Cyclops Works, Sheffield
Charles, John and Sons, Kelham Rolling Mills, ..
Charles, William, Millsands Forge, ..
Carr, J. and R., ..
Cadman, Charles and Sons, Canal Works, ..
Cocker, Brothers, Wire Rolling Mills, ..
Capey Charles, ..
Craven Brothers, Contractors, ..
Chadburn Brothers, Albion Works, ..
Cutts, I. P., Sutton, and Sons, Division Street, ..
Cavil, Thomas, Engineer, ..
Cutts, John, Vicar Lane Works, ..
Cutts, George, Park Works, ..
Cox, S. H. F., Engineer, ..
Cooke, Robert and Co., Needle Works, Hathersage
Cubitt, William and Co., Contractors, London
Corkling, Robert and Co., Limited, Manchester
Clay, John, Shirland Colliery, near Alfreton
Cross, J. R., Linen Works, Wigan
Cottam, William, Ironfounder, Belfast
Craik, R. and Co., East Gawber Collieries, Barnsley
Claycross Iron Works and Collieries, Claycross
Chappell, John, Contractor, Unstone
Chesterfield Gas Company, Chesterfield
Cliffe, Joseph and Son, Bradford
Collins, Edward and Sons, Kelvindale, Glasgow
Craig, John, Flour Mills, Renfrew
Cox Brothers, Manufacturers, Dundee
Charlton, Engineer, Grimsby
Charlesworth, J. and R., Rothwell Haigh Collieries, near
Leeds

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Names of some of the Firms who have been supplied with either the Patent Piston, Buckets, or Patent Self-acting Lubricator.—*Continued.*

Messrs.

Chester Brothers, West Street, Sheffield
 Crossley, John and Sons, Limited, Dean Clough Mills, Halifax
 Chambers and Fargus, Seed Crushers, Hull
 Cockroft, Abel and Sons, Fairfield Mills, Huddersfield
 Christie, John, Esq., Armiston Collieries
 Chambers, Edward, Esq., Tibshelf Colliery, Alfreton
 Cooper Brothers and Glossop, Engineers, Sheffield
 Crossland, James, Britannia Mills. "
 Clarke, George, Brass Founder, Hull
 Cragg, R. and Sons, Iron Shipbuilders, Cleveland
 Carr, George, Builder, Sheffield
 Davy Brothers, Engineers, Sheffield
 Dixon, James and Sons, Cornish Place, Sheffield
 Drabble and Sanderson, Ebenezer Works, "
 Drabble, James and Co., Orchard Works, "
 Davenport, Thomas, "
 Dodworth, James, "
 Dyson, John and Son, Carbrook Steel Works, near Rotherham
 Dawes, W. H. and G., Milton Iron Works, near Barnsley
 Duffin, E., Belfast
 Devonshire Silkstone Colliery Company, Limited, Sheep-bridge, near Chesterfield
 Drake, Richard, Tanner, Bristol
 Davidson, Francis, Engineer, Liverpool
 Denham and Place, Engineers, Burnley
 Dawes and Co., Iron Works and Collieries, Denby, near Derby
 Donisthorpe, G. E. and Co., Leeds
 Douglas, Robert, Engineer, Kirkcaldy
 Dykes, James, Esq., Steam Ship Owner, Leith
 Dunkerley, J. A. and Co., Steam Ship Owners, Hull
 Darie and Nisbet, Elphinstone Colliery
 Dodge, J. and R., Continental Works, Sheffield
 Digby Colliery Company, Ilkestone
 Dockray, H., Holbeck, Leeds
 Duke of Norfolk's, The Right Hon. The, Collieries, Sheffield
 Denny Brothers, Ulverston
 Dickinson, John, Engineer, Monkwearmouth
 Dixon, Wm., Tilter, Owlerton, Sheffield
 Eaton, T. W. and Co., "
 Ellin, Thomas and Co., Vulcan Works, Sheffield
 Evans, Thomas, "
 Evans and Beardmore, "
 England, C. and Co., Hexham Iron Works, London
 Eckersley, N. Esq., Colliery Owner, Wigan
 Earle's Shipbuilding and Engineering Co., Limited, Hull
 Eastwood, Edmund, Engine Bridge, Huddersfield
 Edmund's Main Colliery Company, Worsbro' Dale
 Ellinshaw and Sons, Oil Mills, Sculcoates, Hull
 Edwards, H. M., Cardigan Iron Works, Wakefield
 Engineering Agency Co., Newcastle
 Eckroyd and Yeomans, High Bridge Forge, Owlerton
 Fitzwilliam's The Right Hon. Earl, Collieries, Elsecar
 Firth, Thomas and Sons, Norfolk Works, Sheffield
 Fenton, J. and Sons, "
 Fieldsend, Greenwood, and Co., "
 Fairbairn, H., Engineer, "
 Firth, T. and Sons, Whittington Iron Works, Chesterfield
 Fence Colliery Company, Limited, Woodhouse Mill

Messrs.

Fowler, John and Co., Steam Plough Works, Leeds
 Firth, Barber, and Co., Ardsley Oaks Collieries, Barnsley
 Frith, J. and T., Bradford
 Farnley Iron Works Company, near Leeds
 Frieake and Sons, Mark Lane, London
 Fox, Head, and Co., Newport Rolling Mills, near Middlesbro'
 Felling Coal, Iron, and Chemical Company, Gateshead-on-Tyne
 Fox, Walker, and Co., Atlas Engine Works, Bristol
 Grand Trunk of Canada Railway Company, Montreal
 Garforth, W. and J., Engineers, Dukinfield
 Garrett, Richard and Sons, Liston Iron Works, Suffolk
 Gerard, J., Esq., Colliery Owner, West Houghton, near Wigan
 Garside and Shaw, Timber Merchants, Sheffield
 Gray, Joseph, "
 Gilbert Brothers, "
 Gibson, H., Moorhead Works, "
 Gallimore, W. and Co., "
 Guest and Chrimes, Brass Founders, Rotherham
 Garside and Son, Timber Merchants, Worksop
 Grandison, W. and Son, Howard Street, Glasgow
 Gill, William, Unstone
 Garside, R. and W., Leeds
 Garforth Flour Mill Society, near Leeds
 Green, E. and Son, Wakefield
 Garforth Colliery Company, near Leeds
 Grayson and Hardisty, Engineers, Hunslet, Leeds
 Glasgow Jute Company, Baltic Works, Glasgow
 Glasbrook, T., Worcester Colliery, Swansea
 Greenwood, S. B., Sheffield
 Gleadhall, Robert, Bradley Mills, Huddersfield
 Gilbert and Cooper, Neptune Iron Works, Hull
 Gouty, E., Dye Works, Leicester
 Grosvenor, Charles, New Hall Colliery, near Leeds
 Hepworth Iron Company, Hazlehead
 Haywood, Joseph and Co., Glamorgan Works, Sheffield
 Hunter, M. and Son, Talbot Works, Sheffield
 Hawks, Crawshaw, and Co., Engineers, Gateshead-on-Tyne
 Hopkins, Gilkes, and Co., Tees Side Iron and Engine Works, Middlesbro'
 Hawksley, Wild, and Co., Brightside Boiler Works, Sheffield
 Hodgkinson and Whitton, Sheffield
 Haslam, J. and Son, "
 Hydes, Thomas, "
 Hawksley, G. and Co., "
 Hides, George, "
 Horridge, W., "
 Hoyland, S., "
 Hancock, B., "
 Hawksworth, Eyre, and Co., "
 Hattersley, G. and J., "
 Harrison, James, "
 Hoyland and Elsecar Colliery Company, Hoyland, near Barnsley
 Hewitson, Robert, Contractor, Unstone
 Hunslet Engine Company, Leeds
 Haywood, Joseph, Phoenix Foundry, Derby
 Hall, David, Iquique, Peru
 Hird, Dawson, and Hardy, Low Moor Iron Works, near Bradford

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Names of some of the Firms who have been supplied with either the Patent Piston, Buckets, or Patent Self-acting Lubricator.—*Continued.*

Messrs.

Holden, Isaac and Sons, Alstern Works, Bradford
 Hunter and Graham, Machinery Agents, Dundee
 Harding and Co., Booston Manor Iron Works, near Leeds
 Hirst and Cooke, Lead Manufacturers, Hull
 Humphreys and Pearson, Kingston Iron Works, Hull
 Hanson, Isaac, Haley Mills, Halifax
 Hart, S., Tobacco Manufacturer, Leicester
 Higgett, William, Attercliffe, Sheffield
 Hodges, T. and W., Welford Road, Leicester
 Hancock, S. and Sons, Sheffield
 Hawthorn and Co., Engineers, Leith
 Headman, William, Haymarket Mills, Edingburgh
 Hay, J. and Co., Leith Walk Mills, Leith
 Hay, William, Esq., Portdundas Mills, Glasgow
 Hutton and Thomson, Saw Mills, Leith
 Hawthorn, R. and W., Engineers, Newcastle-on-Tyne
 Holmes, A. and E., Carriage Builders, Derby
 Haigh and Co.
 Hobson, Francis, and Co., Sheffield
 Higgins, W. and Sons, King Street, Salford, Manchester
 Hendry, W. T. and Co., London
 Hutton and Sons, Engineers, Sheffield
 House, Henry, and Co., Catherine Street, City Road, London
 Hall, G., Sheffield
 Haigh, B., Albert Paper Mill, Retford
 Ingham, William and Sons, Wortley, near Leeds
 Ibbotson Brothers and Co., Globe Iron and Steel Works, Sheffield
 Ibbotson, Thomas and Co., Sheffield
 Ince Hall Colliery Company, Wigan
 Inglis, John, Esq., Junction Steam Mills, Leith
 Jessop, William and Sons, Brightside Steel Works, Sheffield
 Jessop and Co., Engineers, Calcutta
 Johnson, Edward, Contractor, Manchester
 Johnson, Christopher and Co., Sheffield
 Jubb, William, Herringthorpe, near Rotherham
 Jackson, George, Corn Mills, Barnsley
 Johnson, W. F., Agricultural Implement Maker, Leicester
 Johnson, H. S. and Co., Gosforth Collieries, Dronfield
 Joy, E. and Sons, Leeds
 Jubb Brothers, Vulcan Foundry, Leeds
 Kitson and Co., Engineers, Airedale Foundry, Leeds
 Kenyon, John and Co., Sheffield
 Kitchen, Samuel
 Knight and Co., Oxclose Colliery, Dronfield
 Knight and Gorton, Contractors, Sheffield
 Kay, Joseph (Executors of), Huddersfield
 King, J. and A. J., Cloth Finishers, Kirkstall Road, Leeds
 Knott, J. and Co., Highfield Steel Works, Sheffield
 Kean, Charles, Engineer, Dundee
 Lancashire and Yorkshire Railway Company, Manchester
 Laycock, Samuel and Sons, Sheffield
 Leather and Co., Wadsley Bridge Iron Works, Sheffield
 Leng, W. C. and Co., *Daily Telegraph* Office, "
 Loxley, Brothers, "Atlas" Printing Office, "
 Lofthouse and Glover, Steam Ship Owners, Hull
 Liverpool and Dublin Steam Ship Company, Liverpool
 Lundhill Colliery Company, Lundhill, near Barnsley
 Lucas, E. and Sons, Ironfounders, Dronfield

Messrs.

Linneker, R. and J., Cobnar Works, Woodseats, near Sheffield
 Lankaster, S., Dunstone Colliery, near Chesterfield
 Lampert and Holt, Steam Ship Owners, Liverpool
 Lowmoor Colliery Company, Lowmoor, near Bradford
 Landale and Dale, Engineers, Kirkcaldy
 Lumby, Edwin, Engineer, Halifax
 Learoyd Brothers, Grove Mills, Huddersfield
 Lister Brothers and Co., Lowgate Mills, Hunslet, Leeds
 Lawrence, J. B. and Co., Bradford
 London and Edinburgh Steam Shipping Company, Leith
 Lamb, James, Engineer, Stockton-on-Tees
 Lucas and Hogarth, Mining Engineers, Sheffield
 Lax, George, Providence Brick Works, Leeds
 Lyon, R. B., Newcastle-on-Tyne
 Leach, John, 25, Water Street, Chorley, Lancashire
 Leather, J., Waterloo Main Colliery, near Leeds
 Marriott and Atkinson, Fitzalan Works, Sheffield
 Manchester, Sheffield, and Lincolnshire Railway Company, Manchester
 Midland Iron Company, Masbro'
 Marsden Brothers and Co., Sheffield
 Mappin Brothers, Queen's Cutlery Works, Sheffield
 Marsden, Son, and Cooke, Rivelin Paper Mills, "
 Moore, Vorley, and Lockwood, Oil Refiners, "
 Marples, William and Sons, Hibernia Works, "
 Mellor, George, "
 Matthews, H., St. Mary's Works, "
 Moore and Parker, Broomhall Mills, "
 Moss and Gamble Brothers, "
 Meggitt, Samuel and Son, "
 Martin, Hall, and Co., Limited, "
 Marsden, R., Paper Mills, Pickering
 May, Walter and Co., Engineers, Birmingham
 Madeley Wood Colliery Company, Wellington, Shropshire
 Mitchell, Joseph and Son, Edmund's Main Colliery, Barnsley
 Monkwood Colliery Company, Chesterfield
 McNaught, William, C.E., Manchester
 Mayall, John, Mossley, near "
 Manston Coal Company, near Leeds
 Monteith and Drysdale, Manufacturers, Tillicoultry
 McLintock and Sons, Manufacturers, Barnsley
 Mathers, Robert, Machinery Agent, Dundee
 Morrison Brothers, Havana
 Middleton Colliery and Estate Company, Limited, near Leeds
 Marshall and Atkinson, Timber Merchants, Grimsby
 Marshall, William and Sons, Victoria Corn Mills, Grimsby
 Muir and Thornton, Benhow Collieries
 Mason, B. B., Lowgate, Hull
 Mitchell, John, Saw Mills, Leith
 Middlesbro' Wrought Nail Company, Middlesbro'
 Mason, W. McG., Glasgow
 Mills, George and Co., Neepsend, Sheffield
 Morrison and Co., Brotton Mines, Saltburn-by-the-Sea
 Meakes, J. and Son, Engineers and Ironfounders, Great Marlow, Bucks.
 Naylor, Vickers, and Co., Don Steel Works, Sheffield
 Newton, Chambers, and Co., Chapeltown and Thornccliffe Iron Works and Collieries, near Sheffield

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

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EDWARD BROOKES.

Names of some of the Firms who have been supplied with either the
Patent Piston, Buckets, or Patent Self-acting Lubricator.—*Continued.*

Messrs.

Nicholson, Benjamin, Shoreham Steel Works, Sheffield
Nettleship, Joseph, Sheffield
Neatby, Shaw, and Co., Timber Merchants, Rotherham
Nicholson and Burkitt, Flour Mills, Retford
Neatby, William and Sons, Timber Merchants, Barnsley
Nixon and Winterbottom, Sheffield
Nadin, J. and W. and Co., Stanton Collieries, Burton-on-Trent
North Yorkshire Iron Company, Limited, Middlesbro'
Naylor and Co., Russel Street, Halifax
Oakerthorpe Iron and Coal Company, near Alfreton
Ommanney and Tatham, Engineers, Manchester
Owen's Patent Wheel Company, Limited, Rotherham
Osborn, Samuel and Co., Clyde Works, Sheffield
Oliver and Co., Limited, Engineers, Chesterfield
Owners of the Wearmouth Colliery, Sunderland
Ousebourne Engine Works Co., Limited, Newcastle-on-Tyne
Oswald, T. R., Shipbuilder, Woolston, Southampton
Owen, William, Brickmaker, Sheffield
Popplewell, J. and Son, Machinists, Ipswich
Pattinson Brothers, Engineers, Sheffield
Pigott and Farrar, Engineers, Barnsley
Pope, W. and Co., Engineers, Bristol
Parkin, J. and Co., Engineers, Retford
Proprietors of *The Times* Newspaper, London
Pearson and Knowles, Ince Colliery, Wigan
Pilkington Brothers, St. Helens Colliery, St. Helens
Parkin, Stewart, and Co., Sheffield
Park Grinding Wheel Co., "
Paton, J. and D., Manufacturers, Tillicoultry
Plevins, C. H., Esq., Newbold Iron Works, near Chesterfield
Peak Forest Mining Co., near Eyam
Pitt, John, Sheffield
Rodgers, Joseph and Sons, Sheffield
Robertson and Carr, Chantrey Works, Sheffield
Roberts and Belk, Furnival Works, "
Rolls, James and Sons, Floor Cloth Manufacturers,
Rotherhithe, London
Roberts, Griffiths, and Co., Glamorfa Slate Works,
Carnarvon
Ringrose, W. and C. L., Steam Ship Owners, Hull
Ransome, S. and E. and Co., London
Ramsden, W., Esq., Colliery Owner, Tyldsley
Richardson, W., Cavendish Works, Sheffield
Round, John and Son, "
Rhodes, Thomas, Esq., High Lane Colliery, near Sheffield
Rotherham, Masbro', and Holmes Colliery Co., Limited,
Masbro'
Rangeley, H., Esq., Iron Works, Unstone
Robinson and Son, Contractors, Barnsley
Rhodes and Harvey, Carr House Colliery, near Rotherham
Robinson, J. G., Fire Brick Works, Elland, near Halifax
Rooth, George, Timber Merchant, Chesterfield
Rutherford and Balmer, Galashiels
Rhodes, John, Woodthorpe Colliery, near Sheffield
Robertshaw, Jeremiah, "Excelsior" Printing Works,
Sheffield
Reading Gas Company, Reading
Rhodes, T. and Son, Wortley, near Leeds
Robertshaw, John and Co., Lee Bridge Mills, Halifax
Riley Brothers, Boiler Makers, Stockton-on-Tees

Messrs.

Scott, Thomas, Grassmarket, Edinburgh
Smith, John, Briggate, Leeds
Sharpe, Stuart, and Co., Limited, Engineers, Manchester
Strangeways Hall Colliery Company, Wigan
Stock, Samuel, Esq., Blackhurst Colliery, St. Helens
Symons Brothers, Engineers, London
Skinner and Holford, Waleswood Colliery, near Eckington
Sheffield United Gas Company, Sheffield
Spear and Jackson, Aetna Works, "
Steer and Webster, "
Shaw, John, Yorkshire Wire Rope Works, Sheffield
Smith, Joseph and Son, Timber Merchants, Sheffield
Shaw and Fisher, Norfolk Works, "
Southern and Richardson, Don Works, "
Steel and Garland, Wharfedale Works, "
Shepherd, John, Timber Merchant, "
Stacey, E. and Sons, Britannia Works, "
Sanderson Brothers, "
Sisson, W. and Co., "
Sorby, Robert and Sons, "
Shaw, James, Dauntless Works, "
Sheffield Coal Company, "
Sheffield and Tinsley Coal Company, "
Simons, Henry C. E., Manchester
Scarsdale Brewery Company, Chesterfield
Smedt, C. L. De and Co., Bruxelles
Shirland Colliery Co., Shirland
Simpson and Forsyth, Leeds
Scales, Outwin, and Jackson, Barnsley
Spencer, J. T. and J., "
Shaw, John, Ironfounder, "
Seebohm, Hough, and Co., Brook Mills, near Derby
Stanley Colliery Company, near Derby
Smith, Joseph and Son, Barnsley
Shaw, Joseph, Victoria Mills, Huddersfield
Slater, Joseph and Son, Sheffield
Somerville, John and Sons, Nursery Mills, Glasgow
Steven and Sons, Railway Signal Works, Glasgow
Slater (Executors of), Exchange Mills, Elland
Samuelson, Martin, and Co., Engineers, Hull
Sorby, Orgreave Collieries, near Sheffield
Senior, George, Colliery Owner, Barnsley
Stodhart, J. and Co., Strand Street, Liverpool
Stephenson, J., Washington, Durham
Sturges and Co., New Gauber Hall Collieries, Barnsley
Stephenson, John, Esq., Seton Collieries, Prestonpans
Steamship "Powerful," of Leith
Steamship "Venus," of Grange Mouth
Stephenson, Jacques, and Co., Acklam Iron Works,
Middlesbro'
Smith and Cook, Great Grimsby
Scholey, Thomas, Boatbuilder, Mexbro'
Scottish Vulcanite Company, Limited, Edinburgh
Seeley, Charles, and Co., Birchwood Collieries, near
Alfreton
Sheffield Patent Brick Company, Limited, Sheffield
Scott, John, Brick Works, Dronfield
Steel, Mr., Bowling, Bradford
Somerset and Dorset Railway Company, Glastonbury
Sage, Walter A., Engineer, Hull

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Names of some of the Firms who have been supplied with either the Patent Piston, Buckets, or Patent Self-acting Lubricator.—*Continued.*

Messrs.

Sissons Brothers and Co., Oil and Colour Works, Hull
 Sibree, Peter, Engineer, Driffield
 Starkie, J. W., Trippet, Hull
 Stratford and Mullet, Osborn Street Mill, Hull
 Tetley, Joshua and Sons, The Brewery, Leeds
 Thorne, W. H., St. John's, New Brunswick, Canada
 Taylor and Co., Bradford
 Tennant Brothers, Exchange Brewery, Sheffield
 Thompson, Wm. and Co., Railway Iron Works, Normanton
 Thornley and Spencer, Little Lever, near Bolton
 Tyldesly Coal Company, Tyldesly
 Thorpe, Samuel (Executors of), Gauber Hall Colliery, Barnsley
 Thorpe and Co., North Gauber Colliery, Barnsley
 Thompson, G. and Co., Engineers, Sheffield
 Tyzack and Sons, Hallamshire Works, "
 Thornhill, S. and Sons, Milton Works, "
 Truswell Brewery Company, Limited, "
 Tipton Colliery Company, near Chesterfield
 Thompson, George and Co., Contractors, Greenhill
 Thompson, B. and S. H., Birmingham
 Thompson Brothers, Manufacturers, Alloa
 Thornham, S. and Son, Timber Merchants, Hull
 Tinsley, W. S. and Co., Steam Shipbuilders, Hull
 Taylor, J. T., Esq., Ribblesdon Mills, Holmfirth
 Tyzack, Samuel and Co., Monkwearmouth Iron Works, Sunderland
 Thackray, Henry, Engineer, Sheffield
 Tasker, John, Angel Street, "
 Trenery, H. E. and Co., Nut and Bolt Manufacturers, Sheffield
 Taylor and Co., Commercial Street, London
 Tankard, James and Sons, Bradford
 Thompson, W. M., Bradford
 Thomas and Nephew, Bangor
 Unsworth Colliery Company, Washington
 Unwin and Shaw, Brightside Colliery, Sheffield
 Union Grinding Wheel Company, "
 Vaughan Brothers, Grimesthorpe, "
 Vaughan, G. L., Esq., Snibston Collieries, Leicester
 Vardy, Thomas, Sheffield
 Wolstenholme, G. and Son, Washington Works, Sheffield
 Wingfield, Rowbotham, and Co., "
 Wells, Henry, "
 Wardlow, S. and Co., Oughtibridge Steel Works, near "
 Waterhouse, C., "
 Wardsend Steel Works Co., Wardsend, near "

Messrs.

Walker, Hall, and Co., Sheffield
 Waddy, I. D., "
 Wolstenholme, Joseph, "
 Walker, Charles, "
 Wain, J., "
 Wells, J. and G., Colliery Owners, Eckington, Sheffield
 Wooley Colliery Company, Darton, near Barnsley
 Whittington Colliery Company, Whittington
 West Staveley Colliery Company, "
 Winter, William, Leeds
 Wilkinson, John, York
 Ward, George and Co., Dronfield
 Wilcock and Co., Leeds
 Wright, Richard, Highfield Colliery, Dronfield
 Wright Brothers, Albion Corn Mills, Leeds
 Wright, Joseph, Gresford, Wrexham
 Wilde, H. and Co., Engineers, Manchester
 Whitham, Samuel, Wakefield
 Walley, John, Boiler Maker, Derby
 West Yorkshire Iron and Coal Company, Morley, near Leeds
 Wragg, George, Ironfounder, Masbro'
 Wilson, Thomas, Sons and Co., Steam Ship Owners, Hull
 Walker, Thomas, Chapel Hill Saw Mills, Huddersfield
 Winteringham and Son, Timber Merchants, Grimsby
 Walker and Smith, Seed Crushers, Hull
 Wrigley, E. and H., Brick Factory, Huddersfield
 Wilson, M. and Sons, Sheffield
 Wilson, William, Esq., Swanfield Mills, Leith
 Willows and Holt, Kingston Oil Mills, Hull
 Wallis and Stephens, North Hants Iron Works, Basingstoke
 West Street Finishing Company, Leeds
 Whitaker, —, Albert Mills, Holbeck, Leeds
 Walker, Charles, Napier Street, Sheffield
 Wheatley, W. and Son, Huddersfield
 Ward, William and Sons, Leeds
 Whitely and Sons, Lockwood, near Huddersfield
 Wright, Benjamin and Co., Engineers, Leeds
 Wilson, Cammell, and Co., Dronfield
 Willis and Son, Brass and Iron Founders, Bradford
 Wales, Edward, Engineer, Hull
 Wade, J. and Son, Portobello Mills, Wakefield
 Wild, J. and T. C., Jericho Street, Sheffield
 White, James, Contractor, Sheffield
 West, W. F., Corn Miller, Sculcoates, Hull
 Yorkshire Engine Company, Limited, Blackburn, near Sheffield
 York Tanning Company, Leicester

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TESTIMONIALS.

Manchester, Sheffield, and Lincolnshire Railway,

Engineer's Office, Manchester, Oct. 3rd, 1866.

Dear Sir,—I have tried the Lubricator introduced by you, and with satisfactory results. It is simple and effective in its arrangements, and I consider it a good thing.

Mr. EDWARD BROOKES, Sheffield.

Yours truly, pro C. SACRE, L.S.,
W. F. BUTTERWORTH.

Manchester, Sheffield, and Lincolnshire Railway,

Locomotive and Carriage Department, Sheffield, Nov. 20th, 1868.

Dear Sir,—In reply to your enquiry relative to the working of your Improved Tallow Cups, I have much pleasure in bearing testimony to their satisfactory working on our Locomotives, and shall, on an early opportunity, endeavour to supply them to each of our Engines.

Mr. EDWARD BROOKES, Sheffield.

I am, dear Sir, yours obediently,
HENRY APPLEBY.

Lancashire and Yorkshire Railway,

Locomotive Department, Manchester, May 14th, 1870.

Dear Sir,—In reply to your enquiry, the Patent Lubricators you have supplied for the past four years, work to my entire satisfaction. I consider your Lubricator the best out.

Mr. EDWARD BROOKES, Sheffield.

Yours truly,
WM. YATES, L.S.

Bombay and Boroda Central Indian Railway Company,

Engineer's Office, 45, Finsbury Circus, London, 21st Nov., 1868.

Messrs. SHARP, STEWART, and Co., Manchester.

Gentlemen,—I shall be much obliged if you will make arrangements to try "Brookes's Lubricator" on the next Engine that is tried in steam.

This Lubricator is more simple than R——'s, is about half the price, and is much less liable to get out of order.

Yours faithfully,
J. T. KENNEDY.

Atlas Works, Manchester, March 30th, 1869.

J. DAVIES, Esq., Bombay, Boroda, and Central Indian Railway Co., London.

Dear Sir,—In reply to your favour we have pleasure in saying the "Brookes's Lubricator" has been attached to the steam pipe of our Blowing Engine, and has worked well, giving an economy of 50 per cent., as compared with ordinary Grease Cups.

Yours truly,
Pro SHARP, STEWART, and Co., Limited,
W. S. T.

Mr. EDWARD BROOKES, Sheffield.

Norfolk Gun Works, Sheffield, Feb. 27th, 1867.

Dear Sir,—The Lubricators you supplied to our Engines and Steam Hammers work to our entire satisfaction, and are a great saving in Tallow. We consider them much better than the Lubricators with Taps and Valves.

We are yours faithfully,
Pro THOMAS FIRTH and SONS,
W. HOBSON.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TESTIMONIALS.—Continued.

Mr. EDWARD BROOKES.

Denby Iron Works, near Denby, Jan. 3rd, 1868.

Dear Sir,—The Lubricators you supplied to our Pumping and Winding Engines work to our entire satisfaction, and effect a great saving in Tallow. One large Winding Engine was very difficult to start previous to your Lubricator being affixed, being hard to handle after standing, but we have no difficulty now in starting it. I have every confidence in recommending your Lubricators.

Yours truly,

RD. J. BARNES.

Manager of the Ryefield Collieries and Denby Ironstone Mines.

Waleswood Colliery, May 6th, 1868.

Dear Sir,—The Lubricators you supplied us with, more than twelve months since, work to our satisfaction. The Slide Valves of our Winding Engines are much easier for the men to handle since using your Lubricators.

We are, dear Sir, yours truly,

SKINNER and HOLFORD.

Mr. E. BROOKES, Sheffield.

Park Grinding Wheel, Sheffield, Oct. 23rd, 1866.

Mr. EDWARD BROOKES.

Dear Sir,—The Lubricator which you have supplied for our Engine answers the purpose to the best of our wishes, and from its simplicity—having no Taps or Valves, which frequently render repairs needful, where used—is superior to any other we have seen.

We are, dear Sir, yours very truly,

Pro APPLEBY, SKELTON, and Self.

SAMUEL GARDNER.

Sheffield, Oct. 8th, 1866.

Dear Sir,—The Lubricator you supplied for our Engine, we find much preferable to one we previously had with Valves and Taps, which frequently required repairing; and the simplicity of the construction of your Patent, renders any attention almost needless, being self-acting.

Yours truly,

STEER and WEBSTER.

Mr. EDWARD BROOKES, Sheffield.

Grimesthorpe Charcoal and Saw Mills,
Near Sheffield, Oct. 1st, 1866.

Mr. EDWARD BROOKES.

Sir,—We have much pleasure in bearing testimony to the efficient working of the Lubricator you supplied to us. We find a great saving in Tallow, and our Engine works much easier and more regular than when we had a Lubricator with Taps and Valves, which frequently required repairing.

We are yours respectfully,

S. and J. W. VAUGHAN.

"Atlas" Printing Office, Sheffield, Sept. 12th, 1866.

Dear Sir,—We are perfectly satisfied with the Lubricator supplied by you. It bears out your representation in effecting a great saving in Tallow, and from its simplicity of construction, we consider it much superior to the Valve and Tap Lubricator which we had on previously.

We are, dear Sir, yours truly,

LOXLEY BROTHERS.

Mr. EDWARD BROOKES, Sheffield.

Brightside Collieries, near Sheffield, March, 1st, 1867.

Dear Sir,—The four Lubricators you supplied us with, several months since, answer very well, and give us entire satisfaction.

Yours truly, pro PITSMOOR COAL COMPANY.

JOSEPH SAXON.

Mr. EDWARD BROOKES, Sheffield.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TESTIMONIALS.—Continued.

Mr. EDWARD BROOKES, Sheffield.

Eckington, Sept. 1st, 1866.

Dear Sir,—The Lubricator you fixed on my Engine works to my entire satisfaction, and effects a great saving in Tallow, at the same time lubricating the Valves, Piston, and Cylinder, much better than the one I had in use previously, with Valves and Taps, which frequently needed repairing, and did not answer the purpose so efficiently as the one I now have.

I am yours respectfully,
WM. BOOTH.

Mr. EDWARD BROOKES, Sheffield.

Sheepbridge, near Chesterfield, Jan. 17th, 1867.

Dear Sir,—The Lubricators you supplied to our Engines, several months since, answer very well. We find a great saving in Tallow. We were about to put on new Valves, the Engines were so bad to hand, but your Lubricators has rendered it unnecessary, as they now work much easier and more regular.

I am, dear Sir,
Pro THE DEVONSHIRE SILKSTONE COLLIERY CO., LIMITED,
CHAS. HUNT.

Mr. EDWARD BROOKES, Sheffield.

Owlerton Bridge, Sheffield, Feb. 9th, 1867.

Sir,—The Lubricator you supplied us with, six months since, works to our entire satisfaction. Our Engine works much easier, and effects a saving in Coal and at least 50 per cent. in Tallow; and we have much pleasure in recommending it.

We are yours respectfully,
W. ARMITAGE and CO.

Mr. EDWARD BROOKES, Sheffield.

Brampton Brewery, Chesterfield, Feb. 13th, 1867.

Dear Sir,—We have your Patent Lubricator, and find it to answer very well indeed. There is a considerable saving in Oil, and we have great pleasure in recommending it.

We are yours truly,
JOHN BUNTING and CO.

Mr. EDWARD BROOKES.

Sheffield, May 27th, 1868.

Sir,—The Patent Piston you put in our Engine, nearly two years since, has given us great satisfaction. Our Engineer took it out about a fortnight since, and says, although we had not the Cylinder bored when you put the Piston in, it is now in very good condition, and we have realised a great saving in Coals. We have the utmost confidence in recommending your Piston.

Yours respectfully,
WINGFIELD, ROWBOTHAM and CO.

Congress Steel Works, Oughtibridge, near Sheffield, May 26th, 1868.

Dear Sir,—The two Patent Pistons you put in our Engines, about two years since, continue to work to our entire satisfaction. Our Cylinders are in first-class condition, and we have every confidence in recommending your Pistons. They have effected a saving to us of several tons of Coal per week.

We are yours faithfully,
Mr. EDWARD BROOKES, Sheffield. S. and C. WARDLOW.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

TESTIMONIALS.—Continued.

Castle Hill Works, Sheffield, Nov. 15th, 1866.

Dear Sir,—The Patent Piston you put in our Engine works very satisfactory, and effects a great saving in Coal, and we have pleasure in recommending it.

Mr. EDWARD BROOKES, Sheffield.

We are yours truly,

STEER and WEBSTER.

Hanover Works, Sheffield, April 26th, 1866.

Dear Sir,—The Patent Piston which you put in our Engine, about five months since, works admirably, and we have much pleasure in giving you this testimonial, and recommending it. We are not using so many coals as before, by a great deal.

Mr. EDWARD BROOKES, Sheffield.

We are yours respectfully,

SAML. THORNHILL and SON.

Sheffield, April 26th, 1866.

Mr. EDWARD BROOKES.

Dear Sir,—The new Piston you put in our Engine last Christmas gives us every satisfaction. It effects a considerable saving in Coals, and we have no hesitation in recommending it for general use.

We are yours respectfully,

JOSEPH SLATER and SON.

Globe Iron and Steel Works, Sheffield, Jan. 7th, 1870.

Sir,—In reply to your enquiry, the PATENT AIR PUMP BUCKET you made for us gives entire satisfaction. The great saving in time, labour, and Hemp, for Packing, soon pays the cost of the Bucket. I can recommend it with the greatest confidence.

Your PATENT PISTON is also very efficient; in fact, the principle in the Piston and Air Pump Bucket are the same. It effects a considerable saving in Coals, and the principle on which it is constructed is so simple and durable, that I do not hesitate to say it will last three times as long as any Metallic Piston I have seen, and will commend itself to general use.

We require two more Pistons to the Gauges sent herewith. I shall be obliged by your putting them in hand at once, which confirms the high opinion I entertain of your Patent.

I am yours respectfully,

Pro IBBOTSON BROTHERS and CO.,

JAMES BAMFORD, Engineer.

Mr. EDWARD BROOKES.

Swanfield Flour Mills, Leith, Dec. 19th, 1870.

Sir,—I have much pleasure in stating that the two Patent Pistons, 18½ and 28½ in., which you made for my Engines, about two years since, are still working most satisfactorily, and are, in every respect, up to your representation, which, considering you English gentlemen generally know how to praise up your inventions, I think is saying a good deal.

Mr. EDWARD BROOKES, Engineer, Sheffield.

I am yours respectfully,

WILLIAM WILSON.

Yorkshire Wire Rope Works, Sheffield Jan. 16th, 1876.

Dear Sir,—In reply to your favour respecting your Patent Piston, I have pleasure in saying it fully answers my expectations; for though I was previously working my Engine to its full power, since putting in your Patent Piston, I have put on two more heavy Machines, which it now works with ease, and still effects a saving in Coal. Your Patent Lubricator is a great assistance to the Piston, and effects a considerable saving in Tallow.

Mr. EDWARD BROOKES, Sheffield.

Yours truly,

JOHN SHAW.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

CARRIAGE AXLES.

Dis- count.	No. 1115	MAIL PATENT AXLES, with short bolts, brass caps and key, wrench or spanner, complete in ends—	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
			19/0	20/0	21/6	24/0	26/6	32/0	38/0	46/0	55/0	65/0	75/6 86/6 per axle.
	1116	MAIL PATENT AXLES, with brass caps and key, wrench or spanner, complete in ends—	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
			19/0	20/0	21/6	24/0	26/6	32/0	38/0	46/0	55/0	65/0	75/6 86/6 per axle.
	For 1115 or 1116	Wrought Iron Boxes, extra			6/0	6/0	7/0	8/6	10/0	11/6	14/0	16/6	19/0 21/6 24/0
		Spare Mail Boxes		4/0	4/0	4/6	5/0	5/6	6/0	7/0	9/0	11/0	13/0 16/0 per box.
		Ditto Caps		2/0	2/0	2/8	2/6	2/9	3/0	3/3	3/6	4/0	4/6 5/6 per cap.
	1116	Length of Box	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	$10\frac{1}{2}$	11 11 in.
		MAIL PATENT AXLES, with Flaps, R.B.F.G.	25/0	26/6	29/6	32/0	38/0	45/6	54/6	65/0	76/0	88/6	101/6 per axle.
		Ditto with Flaps, C.D.E.	28/0	29/6	32/6	35/0	41/6	49/0	59/0	69/6	80/6	93/6	108/0
		Engraving name on cap, 8d. each cap extra.						Silver Plating, 1/3 each cap extra.					
	1115A	MAIL PATENT AXLES, short bolts, welded or shut up straight—	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
			20/6	21/6	23/0	25/6	28/0	33/6	40/0	48/0	57/6	68/0	80/0 92/0 per axle.
	1115B	Ditto ditto											Same Prices as above.
		Ditto compassed downward											
	1115C	Ditto ditto											Same Prices as above.
		Ditto compassed upward											
	1115D	MAIL PATENT AXLES, short bolts, the box with solid end, no brass cap—	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
			18/6	19/0	20/6	23/0	25/0	30/6	36/6	44/6	53/0	63/0	per axle.
	1116A	MAIL PATENT AXLES, long bolts, welded or shut up straight, same prices as No. 1115A.											
	1116B	Ditto ditto											Same Prices as 1115A
		Ditto compassed downward											
	1116C	Ditto ditto											Same Prices as 1115A
		Ditto compassed upward											
	1116D	MAIL PATENT AXLES, with screwed ends, iron nuts and leather washers, but no bolts or loose back plates	19/0	20/6	23/0	25/0	30/6	36/6	44/6	53/0	63/0		per axle.
		Prices of spare boxes same as 1116.											
		Length of boxes same as 1116. Any other length of box made to special order.											
			$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
	1116E	LONG BOLT MAIL PATENT AXLES, with brass caps and wrench complete, with flat bed for wood, welded or shut up	19/6	20/6	22/0	24/6	26/6	32/0	38/0	46/0	55/0	65/0	per axle.
	1116F	MAIL PATENT AXLES, box with solid end, no brass cap	18/6	19/6	21/0	23/6	25/6	31/0	36/6	44/6	53/0	63/0	
	1116G	LONG BOLT MAIL PATENT AXLES, with brass caps and wrench complete, flat, to bolt to the wood bed	18/6	19/6	21/0	23/6	25/6	31/0	36/6	44/6	53/0	63/0	
			1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.	
	1115A or 1116A	Wrought Iron Boxes, extra	7/0	7/0	8/6	10/0	11/6	13/0	15/6	18/0	21/0	24/0	27/0 per axle.
		Spare Collinge's Boxes	5/0	5/0	5/6	6/0	6/6	7/0	8/0	10/0	12/0	14/0	16/0 per box.
		Ditto Caps	2/6	2/6	2/9	3/0	3/6	4/0	4/6	5/0	5/6	6/0	7/0 per cap.
		Ditto Nuts and Collets	1/0	1/0	1/0	1/0	1/0	1/6	1/6	2/0	2/0		each.
	1117	COMMON AXLES, FOR CABS, &c., with arm, square nut, and cast iron box—											
		Diameter	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$ in.
		Length of Box	5	$5\frac{1}{2}$	$6\frac{1}{2}$	7	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	10	11 in.
			12/0	13/0	15/0	17/0	20/0	24/6	28/6	34/6	40/0	48/6	59/6 71/0 per axle.
	1117A	COMMON AXLE, FOR CABS, &c., as above, but with wrought iron box	13/0	14/0	16/0	18/0	21/0	25/6	30/0	36/0	42/0	50/6	62/0 74/0

FOR ILLUSTRATIONS SEE PAGE 267

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

CARRIAGE AXLES.—Continued.

Dis- count.	No.		$\frac{1}{2}$	1	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{4}$	in.
	1118	COLLINGS'S PATENT AXLES	29/0	30/0	33/0	37/6	43/0	48/6	57/6	66/0	77/6	92/0	105/6	120/6	per axle.
		Wrought Iron Boxes, extra	7/0	7/0	8/6	10/0	11/6	13/0	15/6	18/0	21/0	24/0	27/0	..	
		Spare Collings's Boxes	5/0	5/0	5/6	6/0	6/6	7/0	8/0	10/0	12/0	14/0	16/0	per box.	
		Ditto Caps	2/6	2/6	2/8	3/0	3/6	4/0	4/6	5/0	5/6	6/0	7/0	per cap.	
		Spare Nuts and Collets	1/0	1/0	1/0	1/0	1/0	1/6	1/6	2/0	2/0	..	..	each.	
	1118	COLLINGS'S PATENT AXLE, } with solid butterfly flaps, E. }	35/0	38/0	43/0	48/6	54/6	65/0	74/6	87/6	103/0	118/6	135/6	per axle.	
		Engraving caps, 8d. each.	Silver-plating caps, 1/3 each.												
	1118A	COLLINGS'S ditto, welded or } shut up straight..... }	30/6	31/6	34/6	39/0	44/6	50/0	59/6	68/0	80/0	95/0	110/0	126/0	..
	1118B	Ditto ditto	Same Price as above.												
		Ditto compassed upward													
	1118C	Ditto ditto	Same Price as above.												
		Ditto compassed downward													
	1118D	IMITATION COLLINGS'S PATENT AXLES, with a single nut and collet—													
		Diameter	$\frac{1}{2}$	1	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{4}$	in.
			28/0	29/0	32/0	36/6	42/0	47/0	56/0	64/0	75/0	89/0	per axle.		
	1118E	Ditto ditto with a single nut and } collet, but without Collings's collar }	..	27/0	30/0	34/6	40/0	45/0	53/0	62/0	72/0	85/0	..		
	1119	EYKYN'S PATENT SAFETY COL- LINGS'S AXLE, with concentric collet, &c. ....	..	80/0	83/0	87/0	96/0	115/0	132/0	152/6	..	..	..
		Flaps, extra R.B.F.G. ....	..	5/0	5/0	5/6	5/6	6/0	7/6	8/6	10/0	11/0	..		
		Ditto C.D.E. ....	..	8/0	8/0	8/6	8/6	9/6	11/0	13/0	14/0	15/6	..		
		Any other of the above may be substituted for Flap E., if required.													
	1120	DRABBLE'S PATENT CONICAL CART ARMS, complete, with arm, linch pin, set screw, collet, box, and best gun-metal cap, to bolt to the wood bed—													
		Diameter	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	3	$3\frac{1}{4}$	$3\frac{3}{8}$	4 in.
			39/0	40/0	41/0	42/6	44/6	47/0	49/6	52/0	55/0	62/0	71/6	85/0	106/0 140/0 200/0 266/0 per pair.
		Length of } Box and Cap }	9	$9\frac{1}{2}$	$9\frac{3}{4}$	10	$11\frac{1}{2}$	..	12	..	$12\frac{1}{2}$	$13\frac{1}{2}$	14	15	15 $15\frac{1}{2}$ $15\frac{1}{2}$ in.
	1120A	DRABBLE'S PATENT CONICAL CART ARMS, with cast iron nave and brass oil cap, and wrought iron protecting rim—													
			$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{5}{8}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	in.	
		Spare Boxes for 1120.....	4/6	5/0	5/6	6/0	7/0	7/0	8/0	8/0	9/0	10/0	per pair.		
		Spare Caps .....	..	5/0	5/6	5/6	6/0	6/0	6/6	6/6	7/0	7/6	..		
		Naves, for 1120A.....	..	..	20/0	20/6	21/0	21/6	22/0	24/0	26/0	28/0	..		
	1120B	DRABBLE'S PATENT CART OR VAN AXLES, ROUND BED FOR WELDING (in ends)—													
			$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{5}{8}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	in.		
			..	43/0	45/0	48/0	52/6	57/6	61/6	66/6	77/6	per pair.			
		Length of Box and Cap as 1120A.													
		Spare Boxes and Caps same as for No. 1120.													
	1120C	DRABBLE'S PATENT ROUND BED AXLE, welded straight or compassed upward or downward—													
			$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{5}{8}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{1}{2}$	in.		
			44/6	47/0	50/0	55/0	60/6	65/0	70/6	82/6	each.				

FOR ILLUSTRATIONS SEE PAGE 267.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

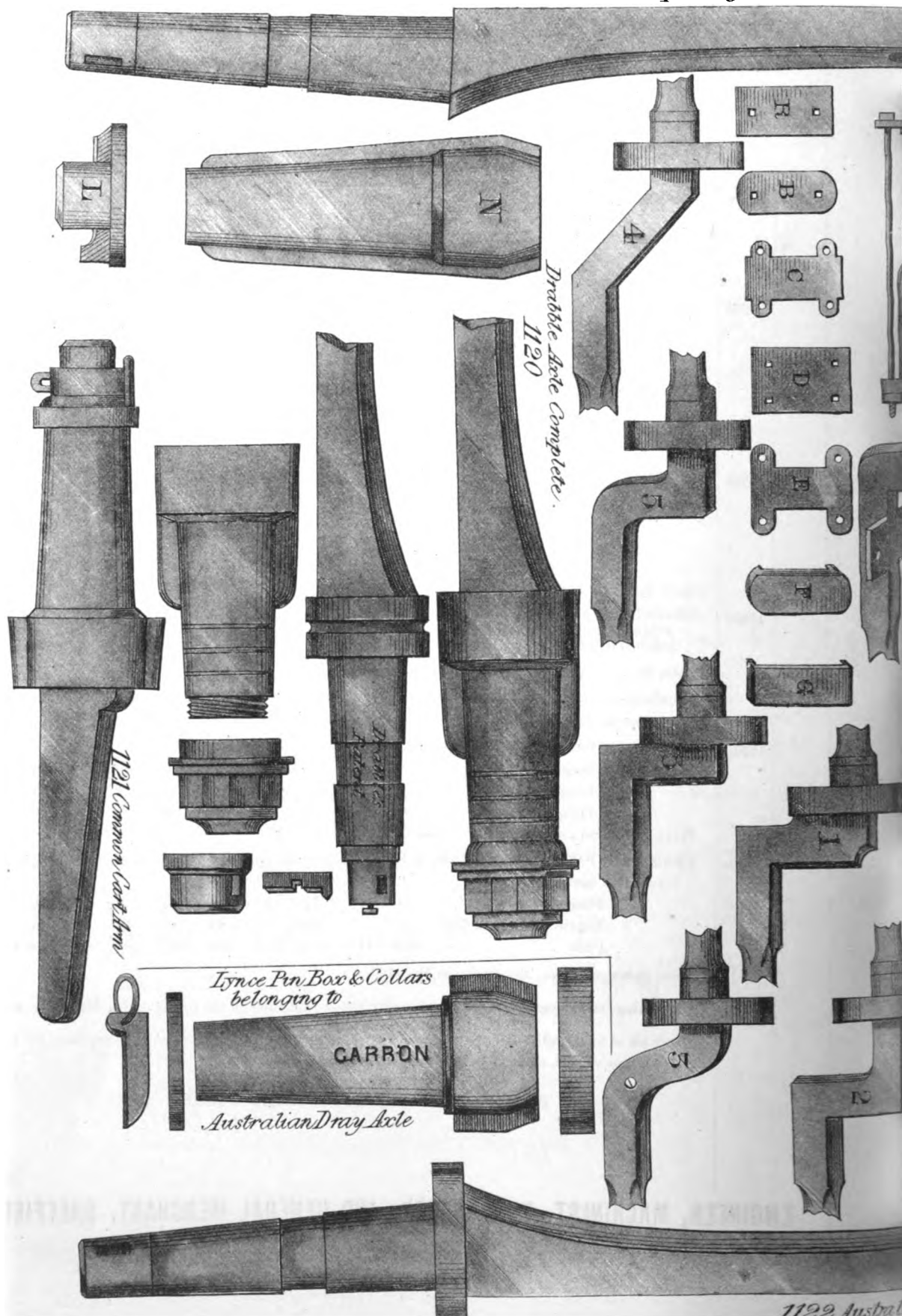
DRABBLE'S PATENT AXLES.—Continued.

Dis- count.	No.	
	1120D	DRABBLE'S PATENT CART OR VAN AXLES, SCOTCH BED, (in ends)— Diameter 1½ 1½ 1½ 1½ 1½ 2 2½ 2½ 2½ in. Length of Box and Cap 9½ 9½ 10 11½ 12 12½ 13½ 14 15 in. Price 41/0 43/0 45/6 50/0 55/0 58/6 63/6 73/6 per pair. Price of Spare Boxes and Caps as No. 1120.
	1120E	DRABBLE'S PATENT SCOTCH BED AXLE, } Welded straight, 4 ft. 4 in., or under, } .. 42/6 45/0 47/6 52/6 58/0 62/0 67/6 78/6 .. between Boxes } Welded, compassed above or below, same price. Price of spare Boxes and Caps as No. 1120. In ordering, state length between Boxes, and distance of hole from Boxes, and whether measured on the top or under side of the Axle.
	1120F	DRABBLE'S PATENT IMPROVED COACH, OMNIBUS, CHAISE, OR CART AXLE, with Collinge's Back (in ends). May also be ordered with Flat or Scotch Bed, if required— Diameter 1½ 1½ 1½ 1½ 1½ 2 2½ 2½ 2½ in. Length of Box and Cap 9½ 10 10½ 11 11½ 12 12 12½ 13 in. Price 40/0 45/0 51/0 58/6 67/0 76/0 85/0 110/0 .. per pair. Spare Boxes for 1120F 5/6 6/0 6/6 7/0 7/6 8/0 9/0 10/0 .. each.
	1120G	DRABBLE'S PATENT IMPROVED AXLE, } welded, straight, compassed above or } 41/6 46/6 52/3 60/6 69/6 79/0 83/6 114/0 .. per axle. below, 4 ft. 4 in., or under, between collars } Spare Boxes same as No. 1120F. In ordering, state length between Boxes, and depth of sweep or compass, and whether measured on the top or under side of the axle.
	1120H	DRABBLE'S PATENT VAN ARM, with square beds throughout— Diameter 1½ 1½ 1½ 1½ 2 2½ 2½ 2½ in. Length of Box and Cap 11½ 12½ 13½ in. Price 43/0 45/0 48/0 52/6 57/6 61/6 66/6 77/6 per pair. Spare Boxes and Caps, same price as No. 1120.
	1120J	DRABBLE'S PATENT VAN AXLE, welded straight, with square bed throughout; length, 4 ft. 4 in., or under, between Boxes— Diameter 1½ 1½ 1½ 1½ 2 2½ 2½ 2½ in. Length of Box and Cap 11½ .. 12 .. 12½ 13½ in. Price 44/6 47/0 50/0 55/0 60/6 65/0 70/6 82/6 per axle. Spare Boxes and Caps, same price as No. 1120. In ordering, state length between Boxes, and whether measured on the top or under side of the Axle. Every set of four Drabble's Arms is furnished with a key, wrench, or spanner. If required for a two-wheeled vehicle, every Axle or pair of Arms has a spanner supplied.

FOR ILLUSTRATIONS SEE PAGES 267.

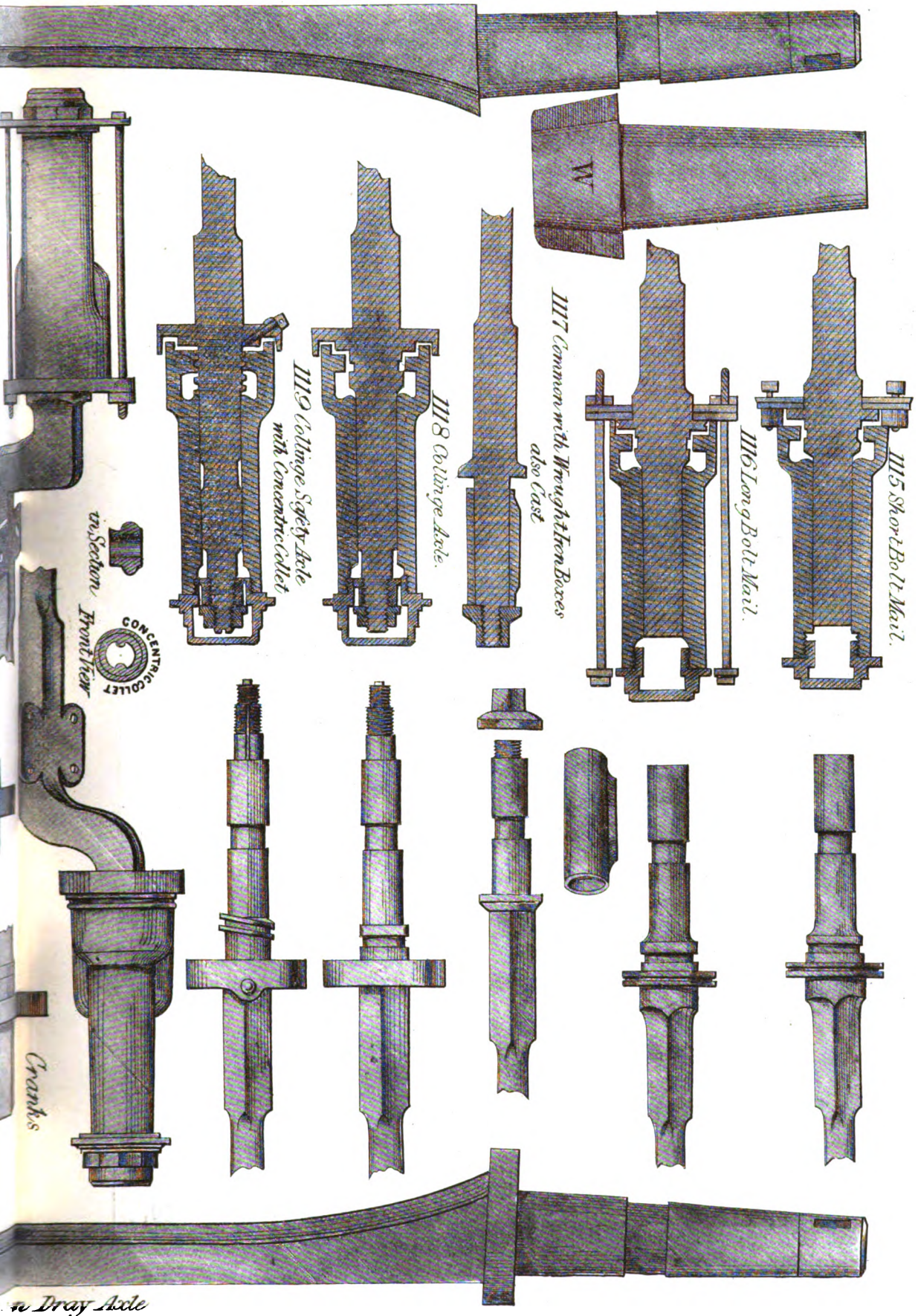
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

1125 Cape Dray Axle with either



FOR PRICES, SEE PREVIOUS

er M or N Boxes and L Collet



THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ORDINARY CART ARMS AND BOXES.

Dis- count.	No.																											
	1121	BEST TURNED CART ARMS, COMPLETE, with box, collet, linch pin, one square hole in the tail or bed, and tail pin— Over 2 in , 36/0 ; 2 in and under, 40/0 per cwt.																										
	1121A	BEST TURNED CART ARMS, as above, London pattern, with two round holes in the bed— Over 2 in., 36/0 ; 2 in. and under, 40/0 per cwt.																										
		<table><tr><td>Diameter ..</td><td>1$\frac{3}{8}$</td><td>1$\frac{1}{2}$</td><td>1$\frac{5}{8}$</td><td>1$\frac{3}{4}$</td><td>2</td><td>2$\frac{1}{4}$</td><td>2$\frac{1}{2}$</td><td>2$\frac{3}{4}$</td><td>3</td><td>3$\frac{1}{2}$</td><td>3$\frac{1}{2}$</td><td>in.</td></tr><tr><td>Length of Box</td><td>7$\frac{1}{2}$</td><td>8</td><td>8$\frac{1}{2}$</td><td>9</td><td>9$\frac{1}{2}$</td><td>10</td><td>10$\frac{1}{2}$</td><td>11</td><td>12</td><td>13</td><td>13$\frac{1}{2}$</td><td>in.</td></tr></table>	Diameter ..	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$	in.	Length of Box	7 $\frac{1}{2}$	8	8 $\frac{1}{2}$	9	9 $\frac{1}{2}$	10	10 $\frac{1}{2}$	11	12	13	13 $\frac{1}{2}$	in.
Diameter ..	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$	in.																
Length of Box	7 $\frac{1}{2}$	8	8 $\frac{1}{2}$	9	9 $\frac{1}{2}$	10	10 $\frac{1}{2}$	11	12	13	13 $\frac{1}{2}$	in.																
		N.B.—The size of the Arm is its largest diameter, and is the same as when measured across the flat part of the bed.																										
	1121B	FORGED MOULD, FOR MAKING THE COMMON CART ARMS— From 2 to 3 in. in size, 26/0 per cwt. ; less than 2 in., 28/6 per cwt.																										
	1121B	If steeled and punched ready for the Box, from 2 to 3 in., 33/0 ; less than 2 in., 36/0 per cwt. The size of mould is measured across the flat part of the bed. Cart Arm Boxes or Bushes, if sold in quantities, over 2 in., 19/0 per cwt. Ditto ditto ditto 2 in. and under, 23/0 per cwt. The size of a Box or Bush is the diameter of the orifice at its larger end. They may be had any length and shape. In ordering, state length and size of the orifice at each end.																										
	1121C	BEST TURNED CART ARMS, with hardened steel bearings, square beds throughout, no holes ; over 2 in., 36/0 ; 2 in. and under, 40/0 per cwt.																										
	1121D	BEST TURNED CART AXLES, with hardened steel bearings, square beds throughout, and welded, 4 ft. or less between boxes ; over 2 in., 40/0 ; 2 in. and under, 45/0 per cwt.																										
	1121E	BEST TURNED CART ARMS, with hardened steel bearings, Manchester pattern, fitted with box, linch pin, and cotter pin, but no collet ; over 2 in., 36/0 ; 2 in. and under, 40/0 per cwt.																										
	1121F	BEST TURNED CART ARMS, with hardened steel bearings and Scotch bed ; over 2 in., 36/0 ; 2 in. and under, 40/0 per cwt.																										
	1121G	BEST TURNED CART ARMS, with hardened steel bearings and cast iron nave ; over 2 in., 31/0 ; 2 in. and under, 35/0 per cwt.																										
	1122	AUSTRALIAN DRAY AXLES, welded or shut up, 5 ft. or less between the collars, and fitted with collar, box, front washer, and linch pin ; over 2 in., 43/0 per cwt. N.B.—In ordering welded or shut up Axles, give the size of the arm, the length between collars or boxes, and thickness through the centre of bed ; also the size, number and distances of the holes in the bed.																										

FOR ILLUSTRATIONS SEE PAGE 267.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ORDINARY CART ARMS AND BOXES.—Continued.

Dis- count.	No.	
	1122A	AUSTRALIAN WAGON OR CART AXLES, in arms, fitted with box, collet, linch pin, and cotter pin, beds, 2 ft. 6 in. long; over 2 in., 41/0 per cwt.
	1123	CAPE DRAY OR BULLOCK WAGON AXLES, welded, 4 ft. 3 in. or less between the shoulders. with hardened steel bearings, and fitted with box, collet, linch pin, and cotter pin; over 2 in., 45/0 per cwt.
	1123A	HALF PATENT AMERICAN BUGGY AXLE ARMS, best quality, with beds from 24 to 30 in. long, fitted with box, square nut, and split cotter pin—
		Diameter $\frac{3}{8}$ 1 $1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$ $1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{3}{4}$ 2 $2\frac{1}{8}$ $2\frac{1}{4}$ in.
		Price 25/0 26/9 29/6 32/9 36/9 41/6 49/0 57/6 67/0 80/0 96/0 115/0 { per set of 4 arms.
	1123n	Ditto, with beds from 7 to 12 in. 19/6 20/9 22/0 23/6 25/6 28/9 35/0 41/6 48/0 56/0 67/0 80/0 ..
		Spare Boxes for 1123A 1/0 1 2 1/3 1/4 1/6 1/9 2/0 2/6 3/0 3/6 4/0 5/0 each.
	1123c	HALF PATENT AMERICAN BUGGY AXLE ARMS, second quality, beds 7 to 12 in. long.. } 19/0 19/9 21/0 22/6 24/6 27/6 33/6 40/0 46/0 54/0 65/0 78/0 { per set of 4 arms.
	1123d	Ditto, with beds from 24 to 30 in. long } 24/0 25/9 28/6 31/9 35/9 40/0 47/6 56/0 65/0 78/0 94/0 113/0 ..
	1123e	COMMON BUGGY AXLE ARMS, with beds 7 to 12 in. long } 15/6 16/0 16/9 18/0 20/0 23/6 26/9 33/6 40/0 48/0 56/0 67/0 ..
	1123f	Ditto, with beds from 24 to 30 in. long } 21/0 21/6 22/9 24/9 28/0 32/9 39/6 48/0 57/0 67/0 78/0 91/0 ..
		CRANKS, 1, 2, 3, 4, 5, 6 in. deep, or less } .. 11/6 11/6 14/0 14/0 15/6 18/9 23/0 27/6 32/0 38/0 42/0 ..
		Deeper Cranks, extra for every additional inch } .. 1/3 1/3 1/6 1/6 1/9 1/9 2/0 2/6 3/0 3/6 4/0 ..
		In ordering cranks, state distance from back of collar to the top corner of Crank, and the depth from the top corner to the surface of the horizontal bed.
	1123g	MAIL PATENT AXLES, LONG BOLT, and solid flap on the horizontal bed, with cranks, 1 to 6 in. deep or less, and flaps, R. B. F. G.—
		Diameter 1 $1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$ $1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{3}{4}$ 2 $2\frac{1}{8}$ $2\frac{1}{4}$ in.
		Price 35/6 38/0 43/6 46/0 53/6 64/6 77/6 92/6 108/0 126/6 144/6 per axle.
		Ditto, if flaps C. D. E. 39/6 41/0 46/6 49/0 57/0 68/0 82/0 97/0 112/6 131/6 151/0 ..
	1123h	Ditto, ditto, with crank 6 in. deep or less, and solid flap on the corner of crank } 39/6 41/0 46/6 49/0 57/0 68/0 82/0 97/0 112/6 131/6 151/0 ..
	1123j	Ditto, ditto, with crank 6 in. deep or less, and caulked flap on top corner, for hansom cabs. &c. ... } 36/6 38/0 43/6 46/0 53/6 64/6 77/6 92/6 108/0 126/6 144/6 ..
	1123k	Collinge's Patent Axles, 1118, with crank, 6 in. deep or less, 1 to 6 and flaps R.B.F.G., on horizontal bed } 46/6 49/6 57/0 62/6 70/0 84/0 97/6 115/0 135/0 156/6 178/6 ..
	1123m	Ditto, ditto, 1118, with crank, 6 in. deep or less, and solid flap on the top corner } 46/6 49/6 57/0 62/6 70/0 84/0 97/6 115/0 135/0 156/6 178/6 ..

Various kinds of Wrenches, Keys, or Spanners, to suit Axles or Arms.

FOR ILLUSTRATIONS SEE PAGE 267.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

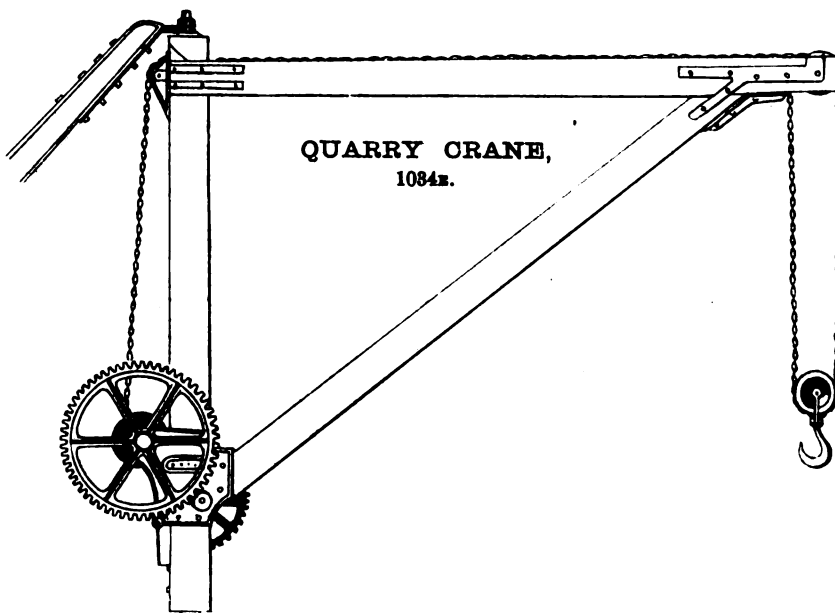
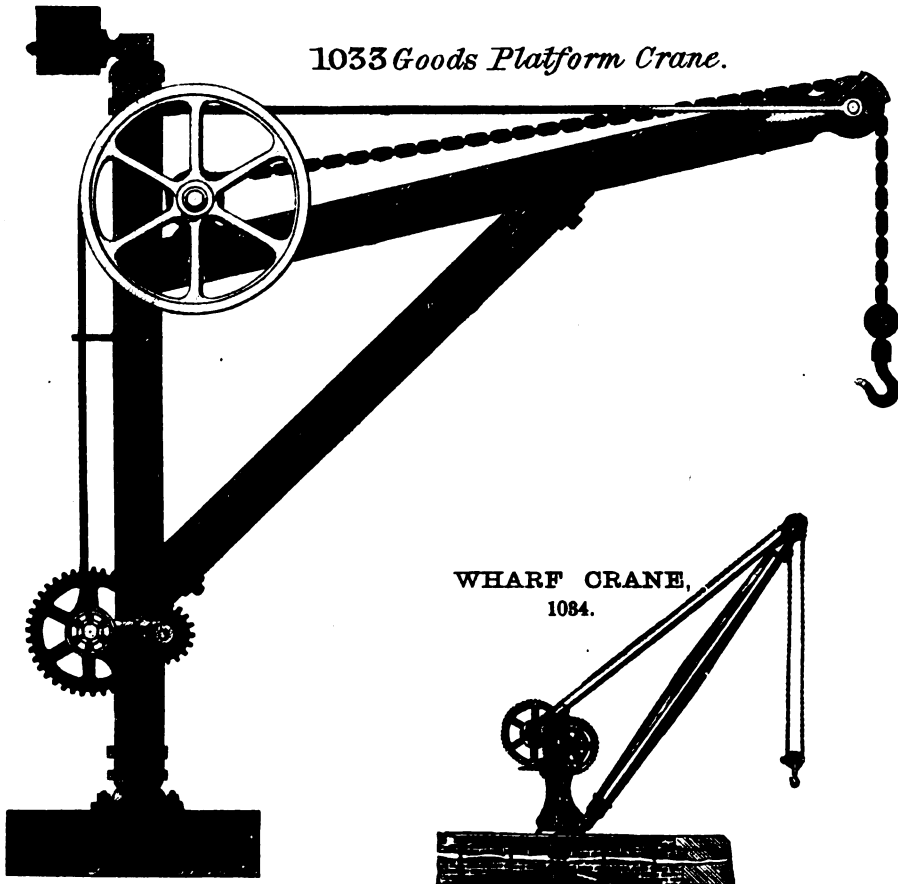
EDWARD BROOKES.

CRANES.

Dis- count.	No. 1033	GOODS PLATFORM CRANES, to lift 1, 2, or 3 tons				£	to £	each.
	1034	WHARF CRANES, to lift 12 cwt., 8 ft. radius, approximate weight, 15 cwt.					£ s. d.	
		Ditto	ditto	1 ton	8 ft.	ditto	ditto	28 ,, 87 0 0 ,,
		Ditto	ditto	1½ "	9 ft.	ditto	ditto	30 ,, 42 10 0 ,,
		Ditto	ditto	2 tons	10 ft.	ditto	ditto	40 ,, 47 0 0 ,,
		Ditto	ditto	3 "	12 ft.	ditto	ditto	45 ,, 56 0 0 ,,
		Ditto	ditto	4 "	12 ft.	ditto	ditto	78 ,, 80 0 0 ,,
		Ditto	ditto	5 "	14 ft.	ditto	ditto	85 ,, 100 0 0 ,,
		Ditto	ditto	8 "	14 ft. radius			162 0 0 ,,
		Ditto	ditto	10 "	14 ft. ditto			190 0 0 ,,
	1034A	CHEAP IRON JIB CRANES, with bolts and nuts, and cast brackets and plates, guide pulleys, roller, and chain wheels, complete; adapted for outside buildings, where it would be inconvenient to fix any apparatus within the building, to be used with Patent Differential Pulley Blocks or Crab Winches.						
		Price of Crane to lift ½ ton, £4 10s.; with Single Purchase Crab Winch, 55/0 extra; if with Break, 15/0 extra.						
		Ditto	ditto	1 "	£6 0s.; with Double	ditto	105/0 ,,	ditto 15/0 ,,
		Ditto	ditto	2 "	£7 10s.; ditto	ditto	140/0 ,,	ditto 20/0 ,,
		Height, about 4 ft.; radius, 8 ft. Cranes of larger radius, at one-fourth more than the above prices for each additional foot. The Cranes will be made higher in proportion. In ordering, state thickness of wall.						
						$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$ in.
		Best Chain, including Hook and Ball				8d.	10d.	1/2 per foot.
	1034B	QUARRY CRANE				To lift	2	4
							6	tons.
								each.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

CRANES.—Continued.

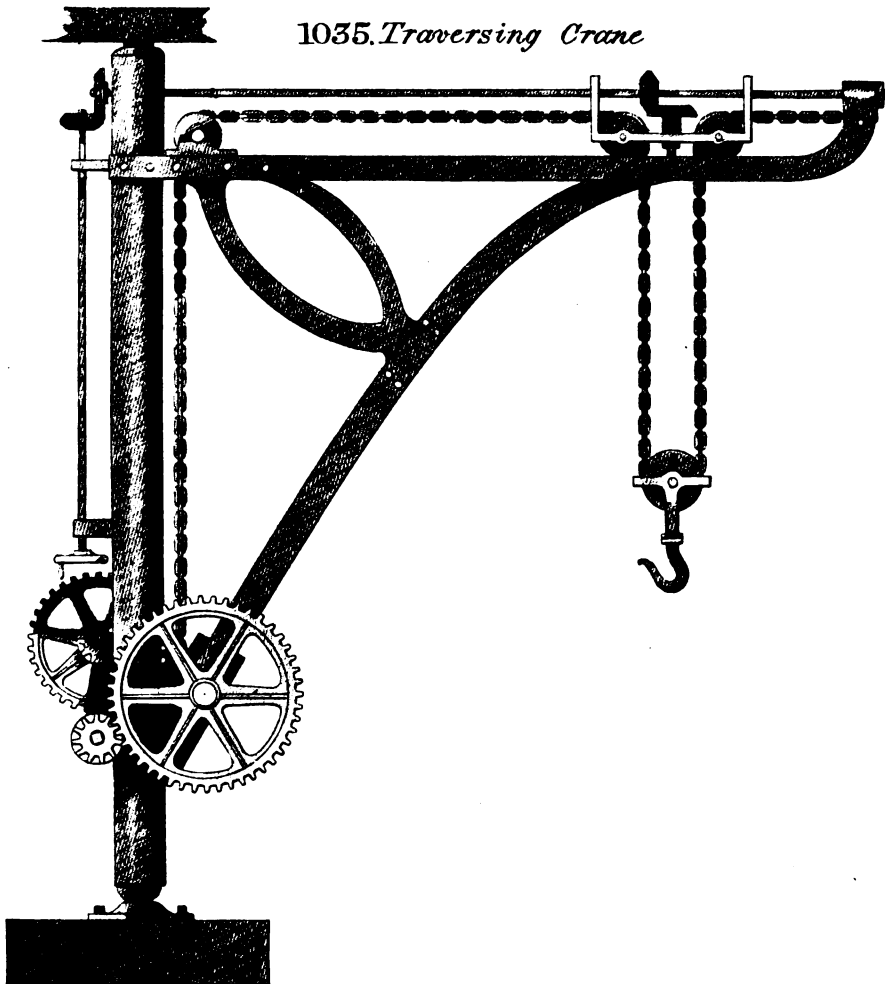
Dis- count.	No. 1035	TRAVERSING CRANES, to lift 2 tons	£
		Ditto ditto 3 ..	£
		Ditto ditto 5 ..	£
	1036	<p>PORTABLE HAND CRANES, for railways or roads, with single and double purchase lifting gear, powerful strap brake and lever, two winch handles, strong iron column and foundation, with turned roller path, adjustable balance box (which may be regulated according to the weight raised), wood jib, sufficient chain to reach the ground, and block, complete; the whole mounted upon a strong wood-framed travelling carriage, with four cast iron wheels, with wrought iron axles, for rails of any gauge. The 12 cwt. and 1 ton Cranes have single purchase gear only, and fixed balance boxes. These Cranes can be supplied with wrought iron tubular or plated jibs, and wrought iron carriage, with chequered iron floor plates, at a slight extra cost.</p>	

DIMENSIONS AND PRICES.

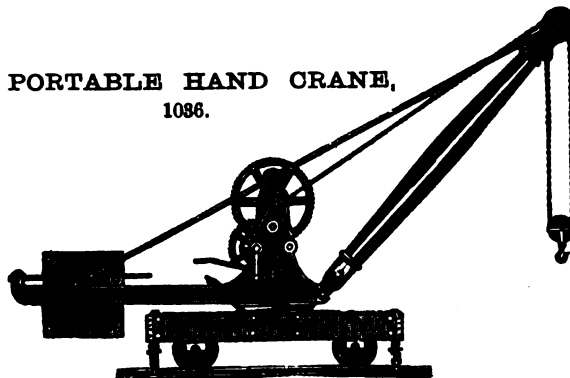
Tested to	Radius.	Price.	Wrought Iron Clips for Rails.	Approximate Weight.
12 cwt.	8 feet.	£36	33/6	28 cwt.
1 ton.	8 "	£38	33/6	30 "
2 tons.	10 "	£60	45/0	48 "
3 "	12 "	£90	55/6	75 "
4 "	12 "	£95	66/6	82 "
5 "	14 "	£143	72/0	140 "
8 "	14 "	£195	82/0	180 "
10 "	14 "	£240	82/0	220 "
12 "	14 "	£262	90/0	240 "

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



PORTABLE HAND CRANE,
1036.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

CRANES.—Continued.

Dis-
count.

No.
1034b

IRON JIB CRANES.

With crab to lift direct from barrel. Height, 4 ft.; radius, 3 ft.; for warehouses, factories, mills, &c. Complete, with brackets, plates, bolts, nuts, guide pulleys, roller and chain wheel. Cranes of larger radius at one-fourth more than the annexed prices for each additional foot. The Cranes will be made higher in proportion. In ordering, state thickness of wall.

	£	s.	d.
To lift $\frac{1}{2}$ ton	5	10	0
" 1 "	7	0	0
" 2 tons	9	0	0

HENDERSON'S PATENT DERRICK CRANES.

1034b

These Cranes are specially designed for the use of builders, contractors, timber merchants, ship builders, and wherever weights have to be raised and moved in a horizontal direction. The jib swings 250° of the circle, and being hung on pivots top and bottom, very little power is required to swing the load. Each Crane is fitted with single and double purchase lifting gear, safety derrick gear for altering the radius, and sufficient chain to reach the ground.

PRICES AND PARTICULARS.

Tested to	Length of Jib.	Maximum Radius.	Price, with wood-work, complete.	Price without woodwork.	Slewing Gear, extra.	Approximate Weight.
12 cwt.	20 feet.	17 feet.	£284	£228	..	16 cwt.
30 "	25 "	20 "	£289	£228	..	24 "
30 "	25 "	20 "	£245	£284	..	26 "
2 tons.	30 "	25 "	£256	£289	£11 10s.	42 "
3 "	30 "	25 "	£273	£250	£11 10s.	47 "
4 "	30 "	25 "	£290	£262	£17 0s.	60 "
5 "	35 "	30 "	£112	£273	£17 0s.	78 "
8 "	35 "	30 "	£156	£128	£22 10s.	104 "
10 "	35 "	30 "	£202	£145	£28 10s.	126 "

Cranes can be made at a different radius to the above at a proportionate extra cost.

1034r

SHIP DECK CRANES..... To lift 1 2 tons each.

1034c

HORIZONTAL STEAM WINCH, with two cylinders, link motion for reversing, single and double purchase gear, foot brake for lowering, warping ends, quick whipping drums, handle shaft, complete, with all recent improvements.

SIZES AND PRICES.

With two 5 in. cylinders, to lift 2 tons direct, £76; with two 7 in. cylinders, to lift 4 tons direct, £100. Ditto 6 in. ditto ditto 3 ditto £88; ditto 8 in. ditto ditto 5 ditto £112.

1036b

STEAM CRANES, to swing three-quarters round by hand.

8-Horse Power Steam Crane, with two cylinders and single and double purchase gearing, to lift 3 tons £
If fitted with Link Motion, extra £
7-Horse Power Steam Crane, similar to the above, but with one cylinder, and single purchase only, to lift 30 cwt. £
If fitted with Link Motion, extra £
4-Horse Power Steam Crane, similar to 7-horse power, but to lift 1 ton £
If fitted with Link Motion, extra £

Quotations will be given for Engines of any power required.

1036c

STEAM WHARF CRANES.

To lift 2 tons, and radiate by steam £
Ditto 3 tons, ditto £
Ditto 5 tons, ditto £
Ditto 10 tons, ditto £

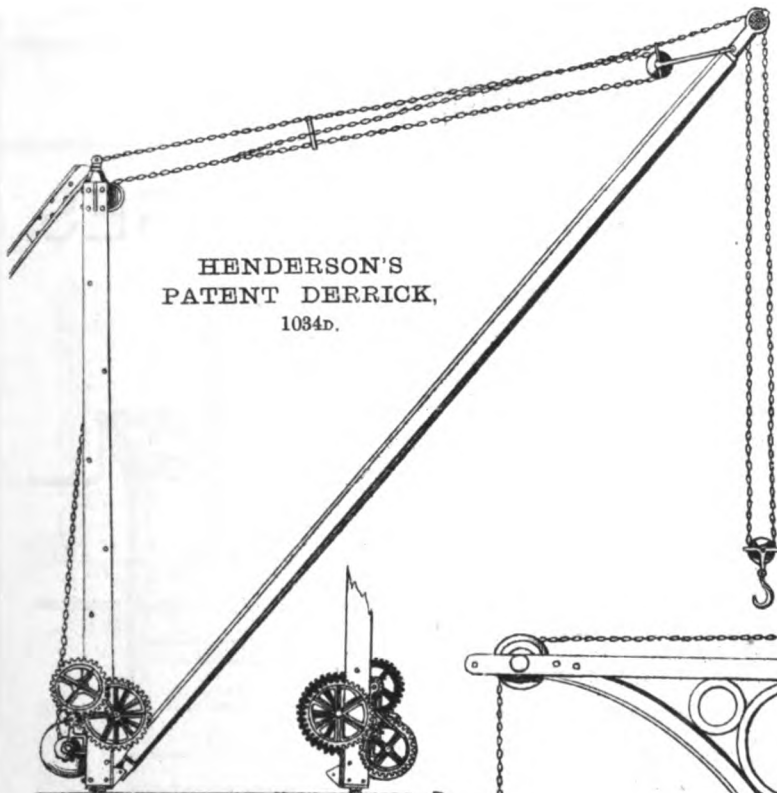
This Crane has two cylinders, fitted with link motion for reversing, single and double purchase gearing, and the radiating motion can be given in either direction, without stopping or reversing the Engine, and the lifting and radiating motion can be at work at the same time.

1036d

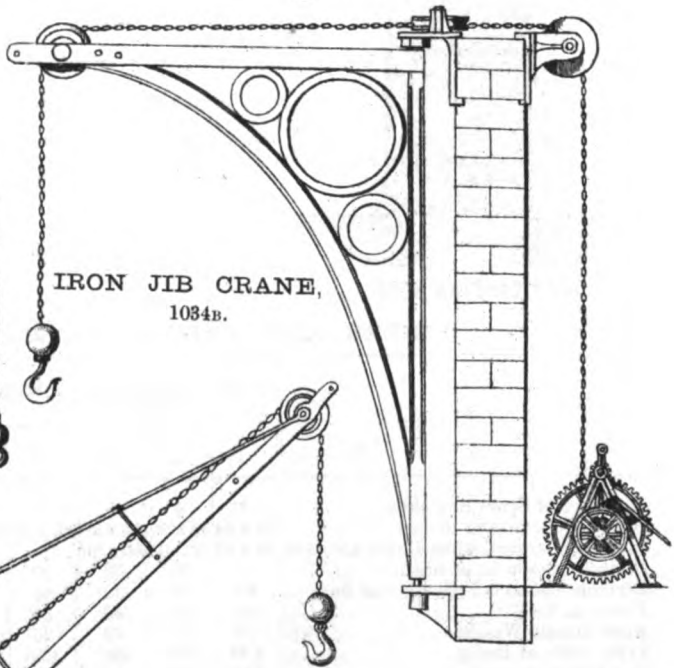
PORTABLE CRANES, to lift 5 tons, and radiate by steam. (Prices on application.)
OVERHEAD STEAM TRAVELLING CRANES. (Prices on application.)

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

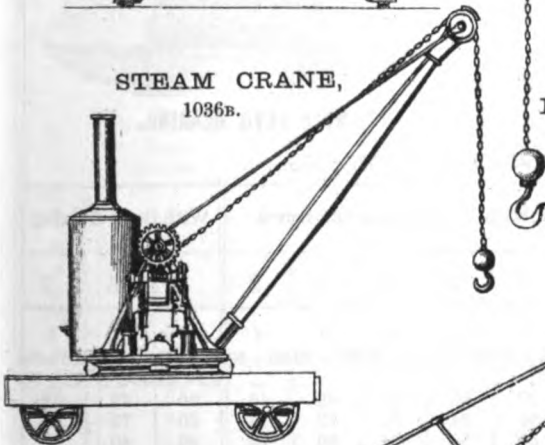
EDWARD BROOKES.



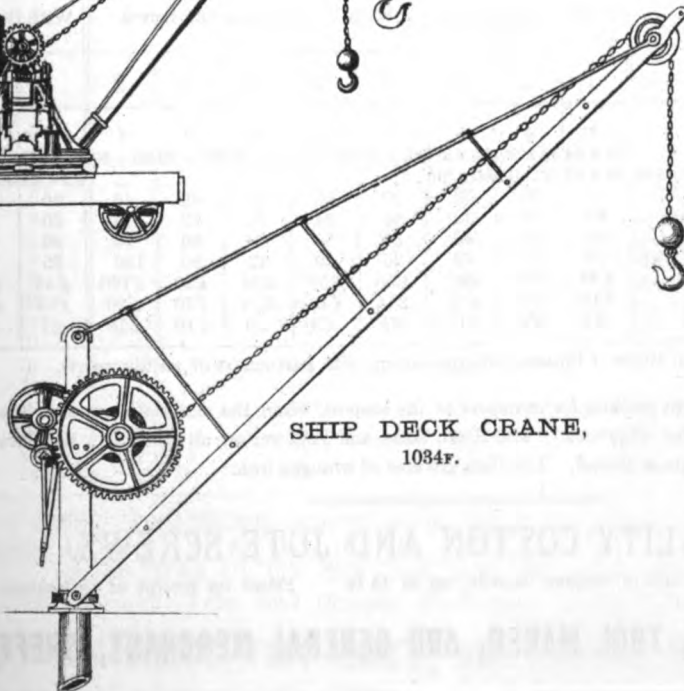
HENDERSON'S
PATENT DERRICK,
1034D.



IRON JIB CRANE,
1034B.



STEAM CRANE,
1036B.



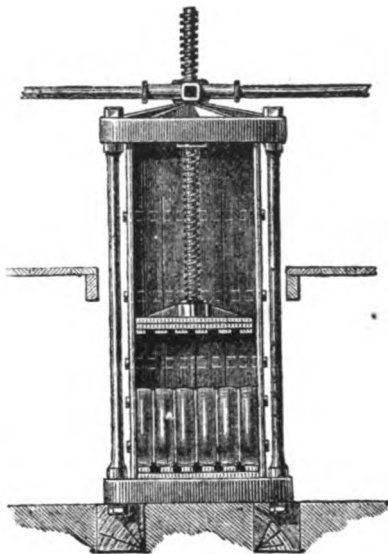
SHIP DECK CRANE,
1034F.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

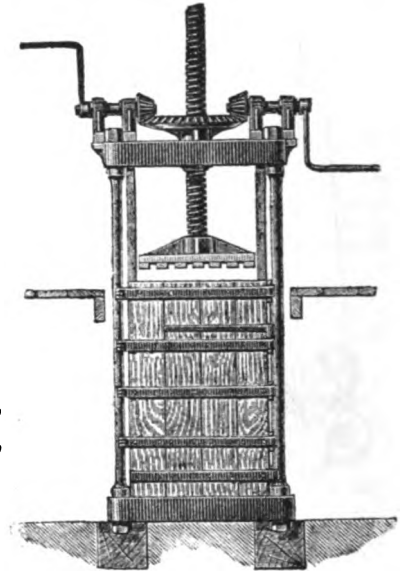
IMPROVED SCREW PRESSES, FOR BALING



WITH CAPSTAN HEAD.

WOOL, JUTE,
ESPARTO
GRASS, HIDE,
RAGS,
&c.

An arrangement of Screw Press,
worked by Worm-wheel and Screw,
can also be made.



WITH BEVIL GEARING.

SIZES AND PRICES OF SCREW PRESSES.

No.	With Capstan Head.			With Worm-wheel and Screw.					With Bevil Gearing.		
	1	2	3	1	2	3	4	5	1	2	3
Diameter of Screw in inches	3	4	5	5	5	6	6	7	4	5	6
Size of Followers in inches	30 x 24	36 x 27	42 x 30	30 x 30	46 x 36	30 x 30	66 x 30	66 x 30	36 x 27	42 x 30	48 x 30
Size of Followers, when Boxes are used ..	28 x 18	32 x 24	36 x 30	..	..	..	..	..	32 x 24	36 x 30	42 x 30
Range of Screw in inches	24	30	36	30	42	36	48	48	36	42	48
Distance between Follower and Base ..	48	60	72	60	84	72	72	72	60	72	84
Power in Tons	20	30	40	50	50	60	60	70	80	40	50
Approximate Weight	14	22	29	38	42	42	90	180	25	35	50
Price, without Boxes	£32	£38	£50	£50	£59	£59	£80	£120	£45	£55	£75
Oak Boxes, complete	£10	£12	£15	£15	£18	£18	£20	£30	£12	£15	£20
Sliding on T Iron Bars	£7	£8	£11	£5	£9	£9	£10	£10	£7	£8	£10

Quotations for Special Sizes of Presses, on application, with particulars of requirements.

These Presses are used for light packing for transport to the seaport, where the material is pressed to a greater density in more powerful presses for shipment. The Head, Base, and Follower are all cast iron; the Screw is of wrought iron, with machine-cut square thread. The Bars are also of wrought iron.

BEST QUALITY COTTON AND JUTE SCREWS.

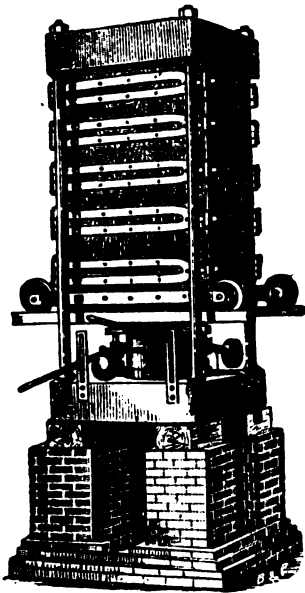
From 3 to 9 in. diameter, and of various lengths, up to 15 ft. Prices on receipt of particulars.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

IMPROVED HYDRAULIC PRESSES,



For Baling Cotton, Wool, Jute, Hay, Esparto-Grass, Hides, Rags, Fuel, Paper, Hops, Tobacco, Hemp, Cloth.

For Extracting Oil from Linseed, Cotton Seed, Rape Seed, Castor Seed, Poppy Seed, Cocoa Nuts, Ground Nuts, Olives, &c., &c.

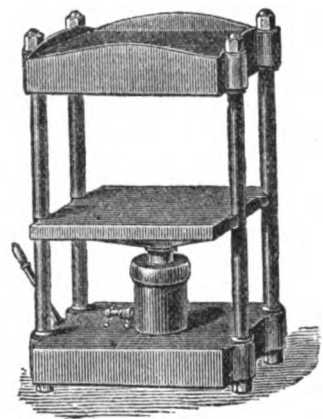
Also for Anthracine, Stearine, Paraffin, Cider, Grapes, Tinctures, Indigo, Beet Root, Yeast, &c.

PARTICULARS AND PRICES ON APPLICATION.

Any deviation in rise of Ram, and distance between Table and Head, can be made to suit the requirements of purchasers at proportionate prices. Most of the above Presses can be supplied with Cistern in Base, and pair of Hand-power Pumps, mounted on same as illustration, at £20 extra.

Quotations for larger Pumps, Presses, Accumulators, and Special Hydraulic Machinery, on application.

MAKER OF OIL MILL MACHINERY.



SIZES AND PRICES (Without Pumps).

No.	Diameter of Ram. Inches.	Rise of Ram. Inches.	Power in Tons.	Distance between Table and Top, when down. Inches.	Distance between Pillars. Inches.	Size of Table. Inches.	Price.	
							Press only.	Box extra.
1	6	48	50	72	30 x 30	30 x 18	55	20
2	6	48	50	72	30 x 30	36 x 18	58	25
3	7	54	80	72	30½ x 30½	30 x 18	65	20
4	7	48	70	72	36 x 27½	30 x 24	67	25
5	7	66	80	84	30½ x 30½	36 x 18	70	27
6	7	60	70	84	36 x 27½	36 x 24	73	35
7	8	66	100	84	36 x 24	30 x 18	95	30
8	8	60	100	84	39 x 33	30 x 24	100	27
9	8	78	100	96	36 x 24	36 x 18	100	35
10	8	72	100	96	39 x 33	36 x 24	110	45
11	8	78	100	96	36 x 24	42 x 18	105	40
12	8	72	100	96	39 x 33	42 x 24	112	50
13	8	90	100	108	36 x 24	48 x 18	110	50
14	8	84	100	108	39 x 33	48 x 24	120	65
15	10	90	200	108	36 x 24	36 x 18	145	40
16	10	84	150	108	45½ x 30	36 x 24	135	50
17	10	120	200	138	36 x 24	41 x 17	165	60
18	10	102	200	130	36 x 24	42 x 18	150	50
19	10	84	150	108	45½ x 30	42 x 24	140	60
20	10	108	200	126	36 x 24	48 x 18	155	60
21	10	102	150	126	45½ x 30	48 x 24	155	75
22	10	102	150	126	45½ x 30	54 x 24	155	85
23	10	102	150	126	45½ x 30	60 x 30	170	110

BEST LEATHER PACKINGS FOR HYDRAULIC PRESSES.

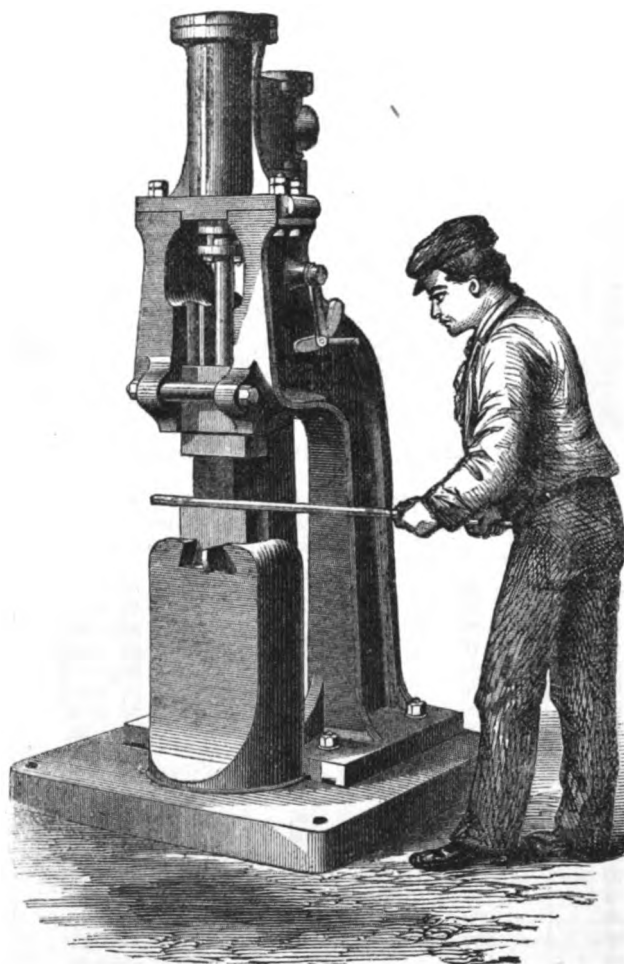
Internal Diameter	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 in.
Prices each	4/8	5/10	7/0	8/2	9/4	10/6	11/8	14/8	16/0	17/4	21/0	22/8	24/0	28/4	30/0	34/10	36/8

Best Wrought Iron and Copper Hydraulic Tubes and Fittings, all sizes.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

STEAM HAMMERS, for SMITHWORK, &c.,
WITH SLIDES. $(\frac{1}{2}$ cwt. and $1\frac{1}{2}$ cwt.)

These little Hammers are applicable to the *lightest* kinds of General Smithwork, and to a great variety of special purposes, such as Forging Files, Bolts, Cutlery, Spindles, Flyers, Gun Barrels, &c.

With a moderate pressure of steam they will strike from 300 to 400 blows per minute, when required.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

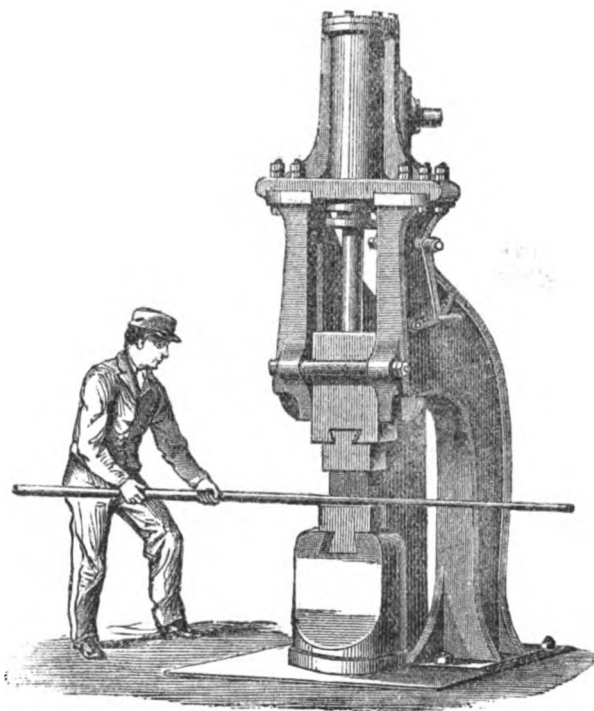
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

STEAM HAMMERS, for SMITHWORK, &c.,

WITH SLIDES.

(3 cwt. and 5 cwt.)



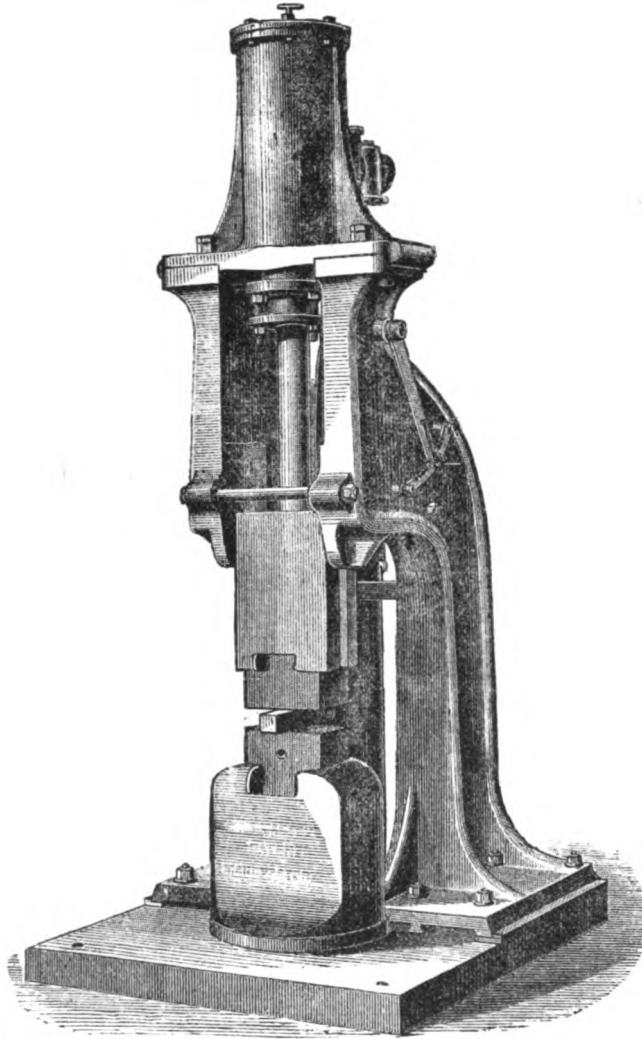
STEAM HAMMER, FOR MEDIUM SMITHWORK, &c.

These Hammers are adapted to Smithwork of *medium* weights.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****STEAM HAMMERS, for SMITHWORK, &c.,
WITH SLIDES.**

(7 cwt., 10 cwt., 15 cwt. and 20 cwt.)

**STEAM HAMMER, FOR HEAVY SMITHWORK.**

These Hammers are designed for *heavy* Smithwork.

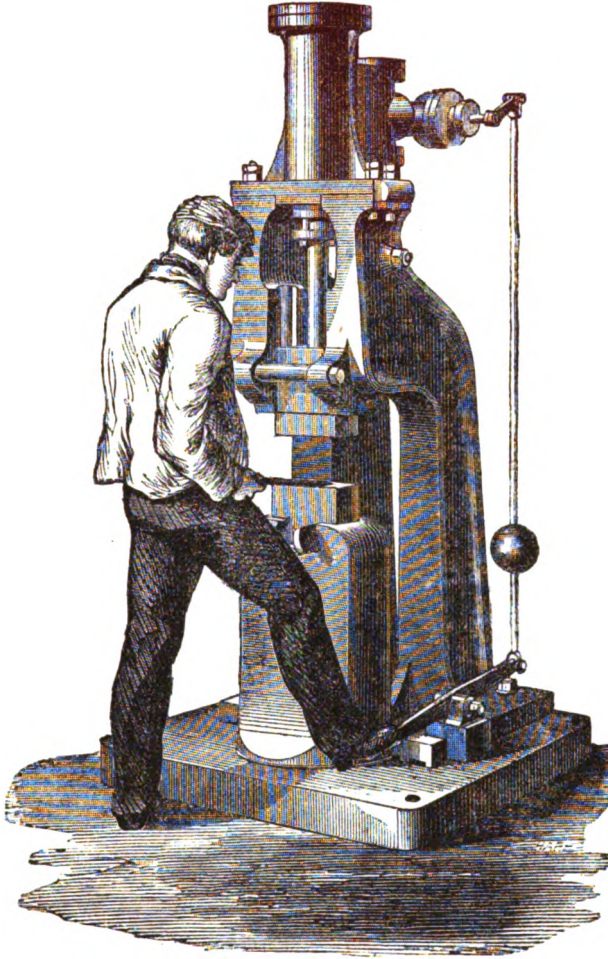
In the 15 cwt. and 20 cwt. the holes in the Base Plates, and the corresponding parts of the Anvil Blocks, are rectangular. The circular form shewn in the engraving is that of the 7 cwt. and 10 cwt. Hammers, the Base Plates and Anvil Blocks being, in these sizes, bored and turned. The Tups are well supported by the slides formed in the Framing.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

STEAM HAMMER, REGULATED BY THE FOOT.



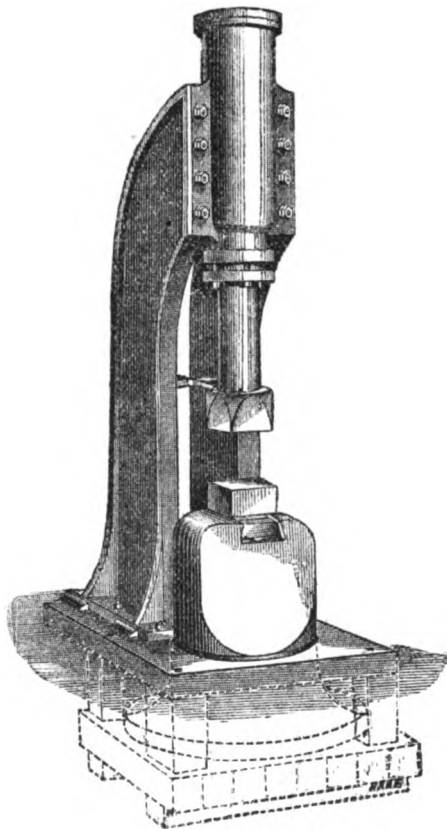
For many kinds of Light Forging, such as Files, Cutlery, Bolts, &c., the construction here shewn effects a very important saving in wages.

It is very frequently adopted for the $\frac{1}{2}$ cwt. Hammer. The Valve Gear is self-acting, but the arrangements for working by hand, and for regulating the length of stroke at the side of the framing, are omitted. Instead of these parts, the Hammer is fitted with a *Foot Lever*, by means of which the same person who is holding the work upon the anvil can start or stop the Hammer, or regulate the speed and force of its blow.

If desired, Foot Levers can be added to Hammers of larger sizes than the $\frac{1}{2}$ cwt., the Valve Gear in these cases remaining unaltered.

The Foot Lever can be placed either to the right or left side as preferred.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****STEAM HAMMERS, for SMITHWORK, &c.,
WITHOUT SLIDES.**

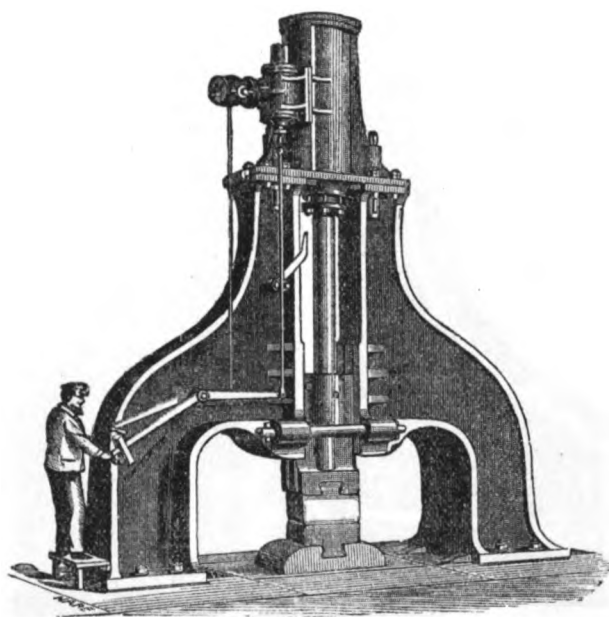
This construction of Steam Hammer is less costly in the first instance than those described in the previous pages, and in some cases, where it is necessary to have an unusual amount of clear space above the Anvil, it is advantageous.

The form shewn on pages 279 and 280 is, however, usually preferred, on account of the great advantage of having the Tup moving between slides.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****STEAM HAMMERS,****FOR FORGE WORK.**

(7 cwt. to 20 cwt.)



The Valve Gear shewn in the engraving, and usually adopted for these Hammers, is the hand-worked motion; but, when desired, the Hammers can be fitted with the combined self-acting and hand-worked motion, shewn on page 282.

In the 7 cwt. Hammer, the Base Plate is bored out, and the Anvil Block is turned to fit it. The Tups of the 7 cwt. and 10 cwt. Hammers are always made of wrought iron or steel. These materials are strongly recommended for the large Hammer also; but when they are not ordered, cold blast cast iron is used.

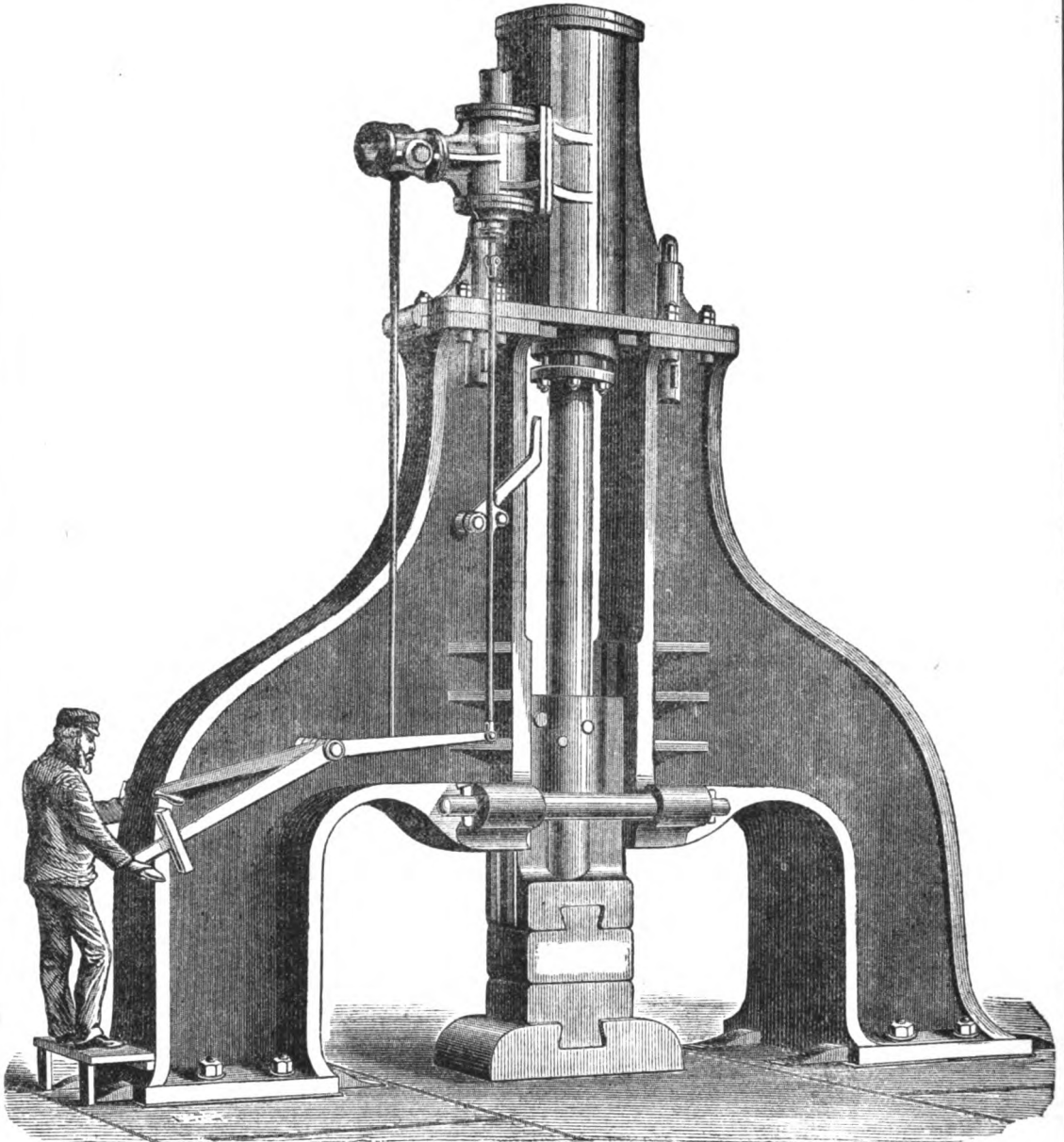
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

STEAM HAMMERS, for FORGE WORK.

($1\frac{1}{2}$ ton to 5 tons.)



These Hammers are of extraordinary strength and power, and are suitable for the severest kinds of Forging in Iron or Steel, for Shingling, &c.

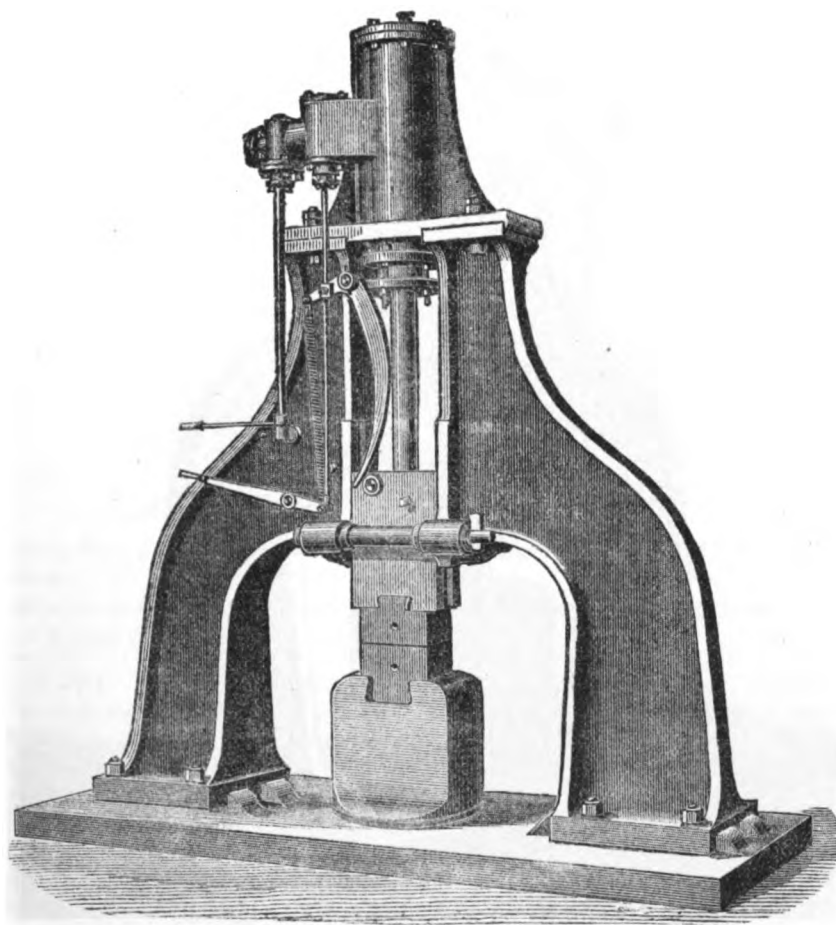
In the smaller Hammers it is recommended that the Tups should be of wrought iron or steel. In all cases in which these are not ordered, cold blast cast iron is used.

The Valve Gear is "hand-worked," and allows the Hammers to strike either "double-acting" or "single-acting," the change being easily effected.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

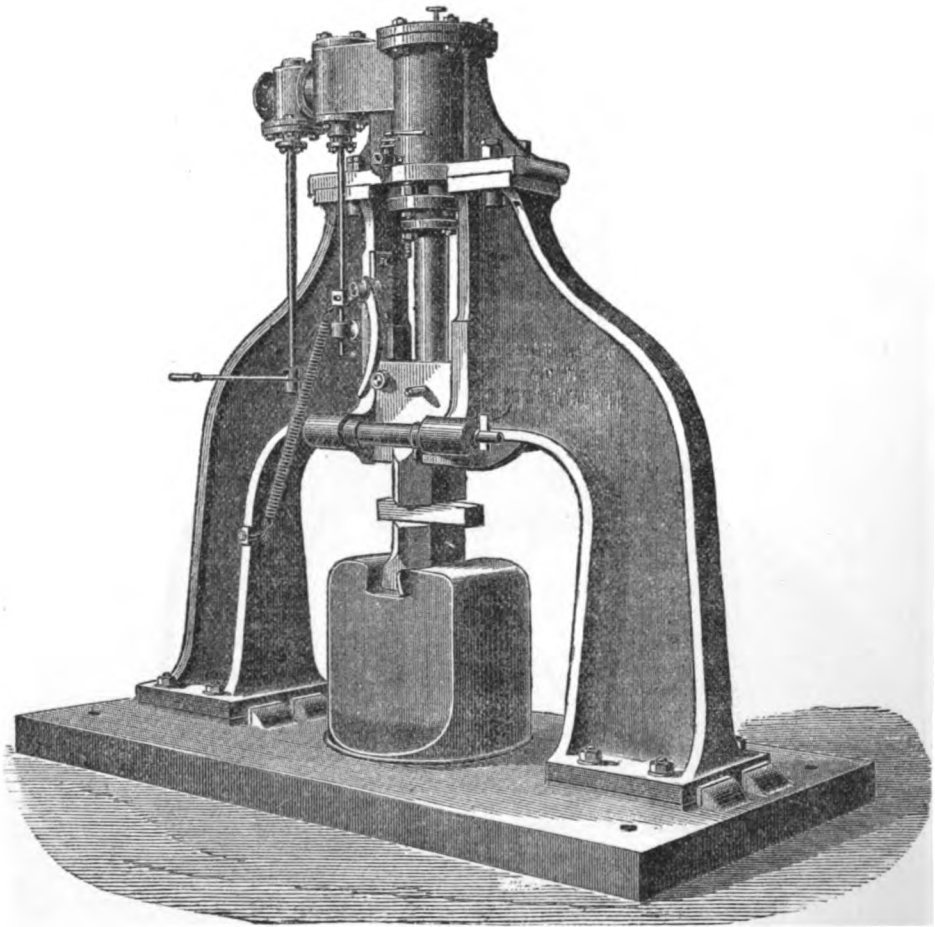
EDWARD BROOKES.

STEAM HAMMERS, FOR FORGE WORK,
SELF-ACTING AND HAND-WORKED.

This engraving shews the application of the combined self-acting and hand-worked Valve Gear to any of the Hammers specified on pages 283 and 284.

In ordinary circumstances it is recommended that Hammers up to 10 cwt. should be self-acting and hand-worked, and that Hammers of larger size should be hand-worked only, as shewn on pages 283 and 284. For small Hammers, such as are used in Spade and Shovel Forging, Axle Forging, and many other purposes requiring *rapid* and *uniform* blows, the self-acting gear is invaluable; but in large Hammers, which are not required to work at so high a speed, it may be omitted without disadvantage.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****STEAM HAMMERS, FOR STEEL TILTING, &c.**

These Hammers are of extreme strength in all their parts, with large cylinders, short strokes, simple self-acting valve gear, and very rapid action.

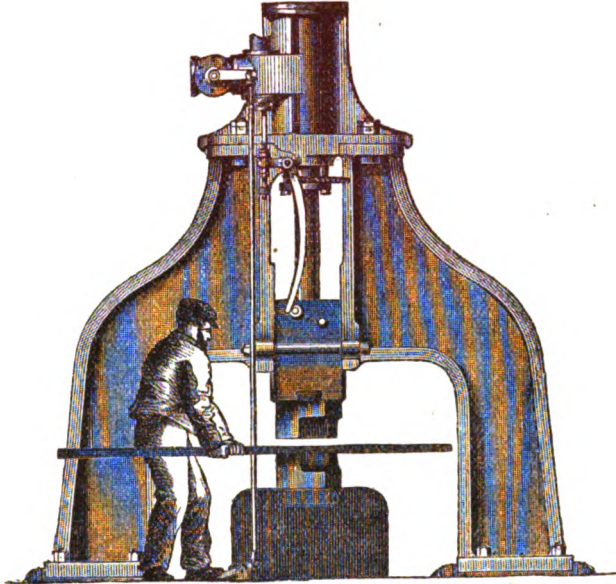
These Hammers are fitted, when desired, with Foot Levers, as shewn on page 287.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

STEAM HAMMERS, FOR STEEL TILTING, &c. WITH FOOT LEVERS.



This engraving shews the application to the Steam Hammers on page 286, of a lever controlled by the foot of the Hammer-man.

This construction is often found convenient in *small* Hammers, enabling the Hammer-man to stop and start the Hammer, or regulate its speed and force, without assistance.

3 cwt. STEAM HAMMER, FOR BREAKING PIG IRON.

In order to avoid the expense incurred in large foundries, in breaking up the pigs of iron into short lengths, convenient for melting, this Hammer has been specially designed. Its construction is very simple, and it can be managed by any unskilled labourer.

STEAM HAMMERS, FOR WHEEL MAKING, COPPER WORK, &c.

For any work which requires great width and height under the framing this form of Hammer is specially suitable.

For WHEEL MAKING and HEAVY COPPER WORK the Hammers are usually worked by hand, the gearing being so arranged as to leave the space below the framing quite unobstructed.

For LIGHTER COPPER WORK, a smaller Hammer (1½ cwt.) is made, with a simple self-acting motion, capable of striking 300 or more blows per minute, when required.

STEAM HAMMER, FOR PLANISHING, &c. (½ cwt.)

This is a very small Steam Hammer, specially designed for Planishing Plates, Tubes, &c.

The Framing overhangs an unusually long distance, so as to admit objects of large size; and the Anvil Block is either movable or is omitted altogether, to allow of the substitution of Blocks or Maundrells of special form, corresponding with the work to be operated on.

This Hammer is particularly useful for Copper Work, Gas Meter Plates, Clock Dial Plates, Heavy Leather Butts, and for welding Boiler Tubes, &c.

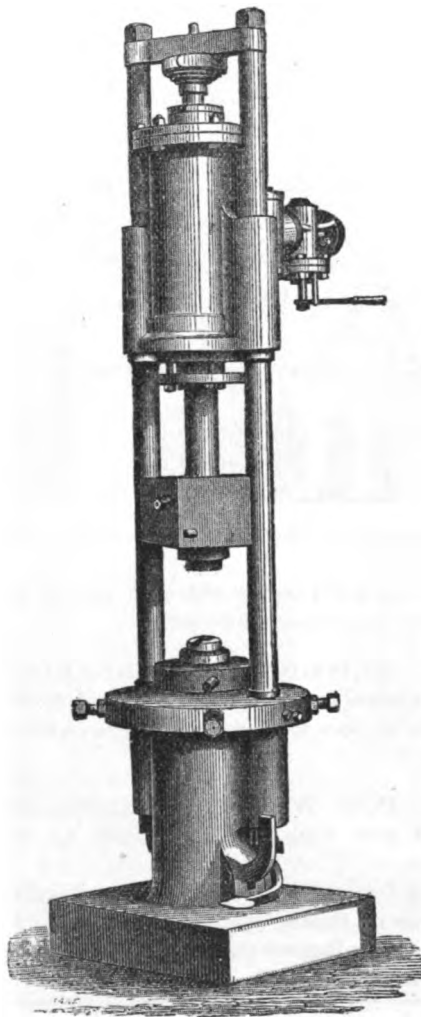
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPECIAL STEAM STAMPS.

($\frac{1}{2}$ cwt. to 3 cwt.)



They are fitted with Foot Levers, as shewn on the engraving, unless ordered to be regulated by the hand.

For Sketches of Specimen Forgings, see page 291.

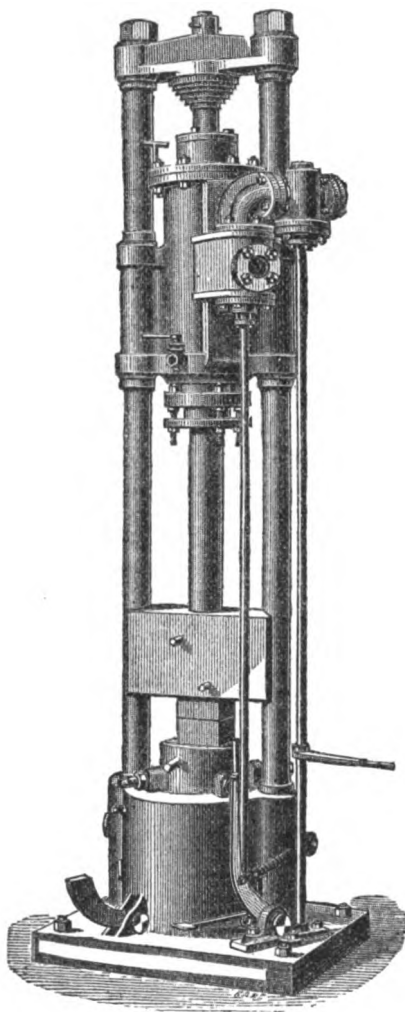
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPECIAL STEAM STAMPS.

(5 cwt.)



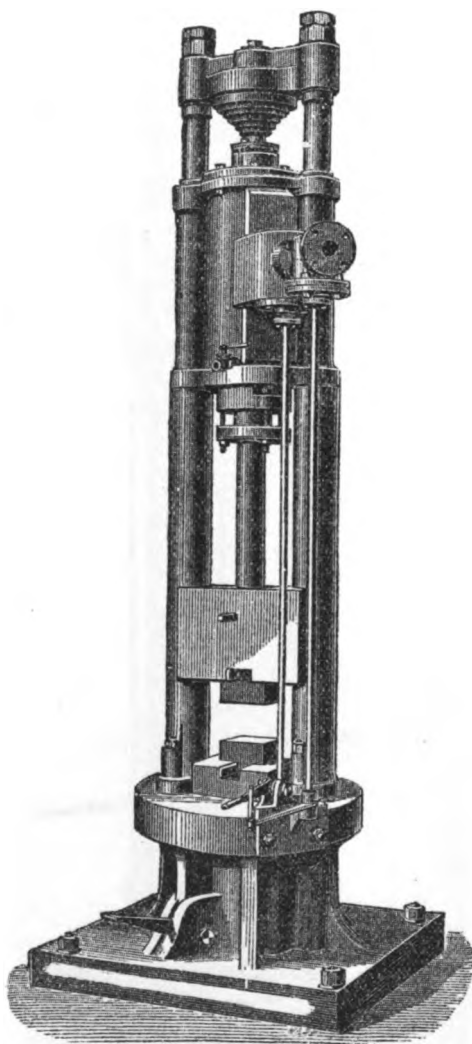
It is fitted with both Hand Lever and Foot Lever, and can be regulated by either.

For Sketches of Specimen Forgings, see page 291.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****SPECIAL STEAM STAMPS.**

(7 cwt. to 20 cwt.)



These Stamps are usually arranged to be regulated by the Hand ; but, when preferred, they are fitted with Foot Levers, like the smaller ones on pages 288 and 289.

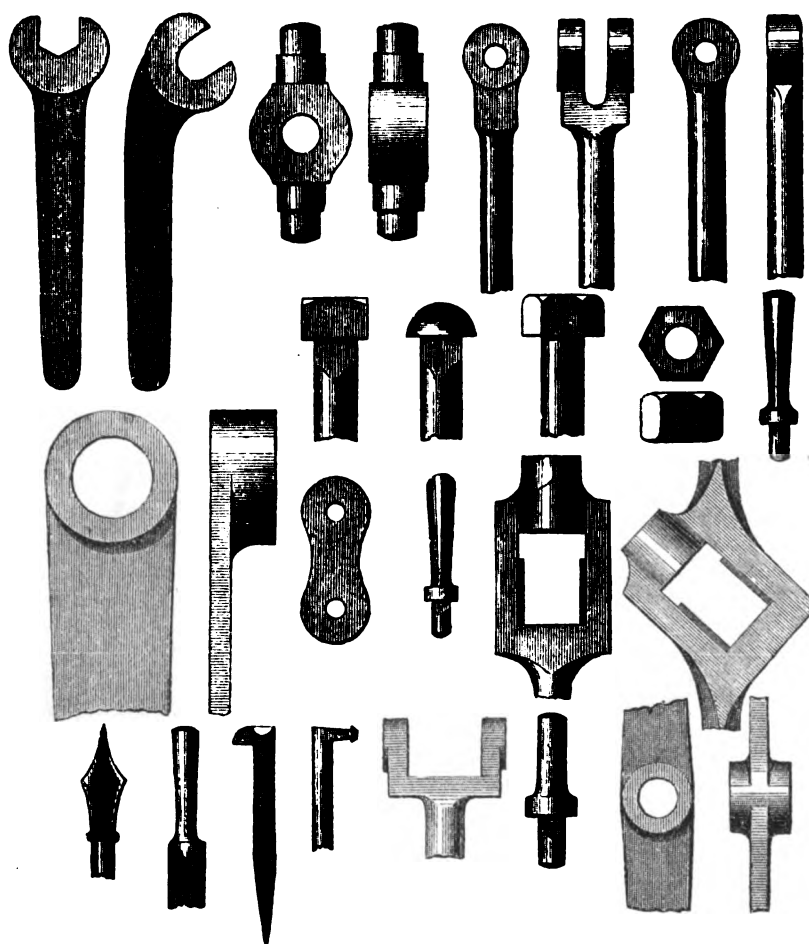
For Sketches of Specimen Forgings, see page 291.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Specimen Forgings made with these
Special Steam Stamps.

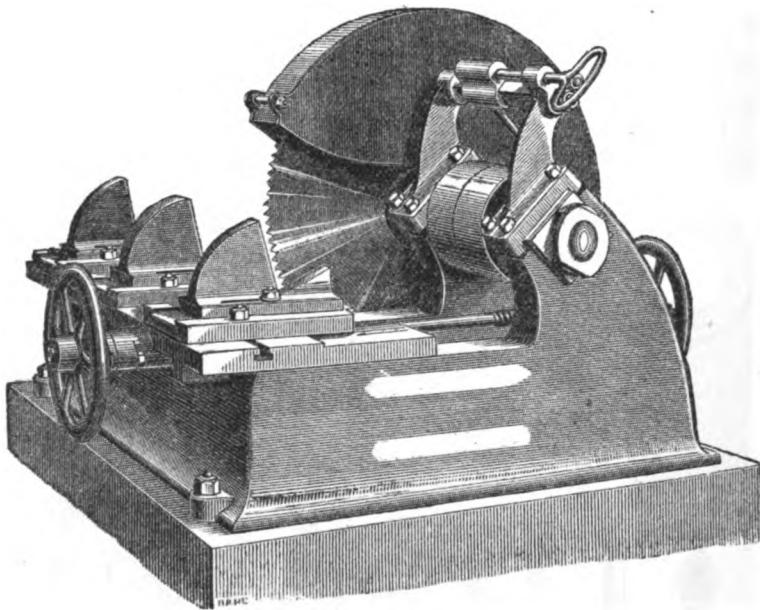


For Illustrations and Descriptions of Stamps, see pages 288 to 290.

In addition to such articles as are illustrated above, the Special Steam Stamps are applicable to the forging of an almost boundless variety of others, of forms which on account of their intricacy, are difficult to make by ordinary means.

Indeed, almost any article, large or small, for which a pair of dies can be cut, can be made with these machines with the most remarkable economy and accuracy.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.****CIRCULAR SAW, FOR HOT IRON.**

This is a most useful Smithy Tool, very soon defraying its first cost by economy in Wages, Iron, and Fuel.

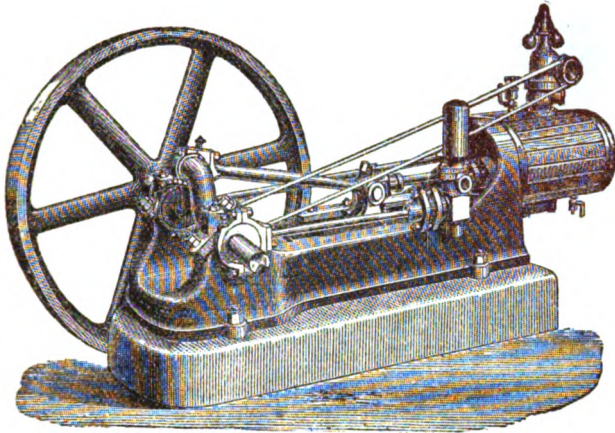
The Saw is of the highest quality of Steel, 30 in. diameter, fixed upon a steel shaft, and running 1400 revolutions per minute. It is securely cased in to prevent accidents, and the table which carries the bar to be cut is moved by a quick-threaded screw, actuated either from the front or back of the machine.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

HORIZONTAL STEAM ENGINE.



SIZES AND PRICES.

NOMINAL HORSE POWER	3	4	6	8	12	14
Diameter of Cylinder, in.	5	6½	8	9	11½	12
Stroke in.	7½	10	12	14	15	16
Revolutions per minute	200	175	150	125	110	110
Diam. of Fly-Wheel . in.	27	36	42	48	54	60
Width	4	5	6½	6	9	10
PRICE, with Governor	£31	£38 10	£53	£72 10	£90	£110
Feed Pump, extra	£2 5	£2 15	£3 5	£4 10	£4 10	£5 10
Foundation Bolts and Plates	16/6	£1 2	£1 7 6	£2 5	£2 5	£2 10
Diam. of Steam Pipe in.	1½	1½	2	2½	2½	3
" Exhaust " in.	1½	2	2½	2½	3	3½
Approx. Weight . . . cwt.	9	13	22	32	45	50

Packing and Delivering at the principal Ports averages 5 per cent.

HORIZONTAL STEAM ENGINE,

WITH VERTICAL BOILER AND HIGH SPEED PATENT GOVERNOR.

Simple, Strong, Compact, Durable, Ready for Use.

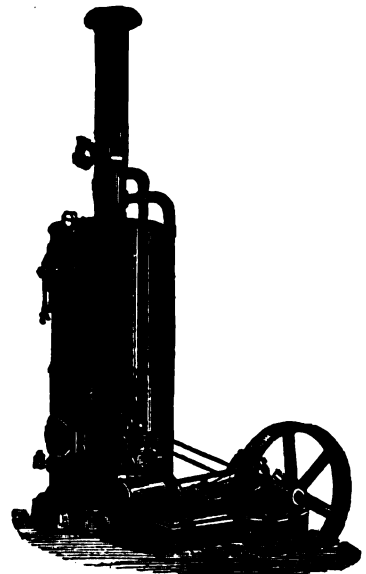
Superior Workmanship, combined with Low Prices.

PRICES AND PARTICULARS.

NOMINAL HORSE POWER	3	4	6	8	12	14
Engine and Boiler, complete, with Feed Pump	£75	£94	£120	£170	£220	£243
Diameter of Steam Cylinder in inches	5	6	8	9	11½	12
Revolutions per minute	200	175	150	125	110	110
Approximate Weight cwt.	38	50	65	75	95	100
Diameter of Fly-wheels inches	27	36	42	48	54	60
Width of Face, turned inches	4	5	5½	6	9	10

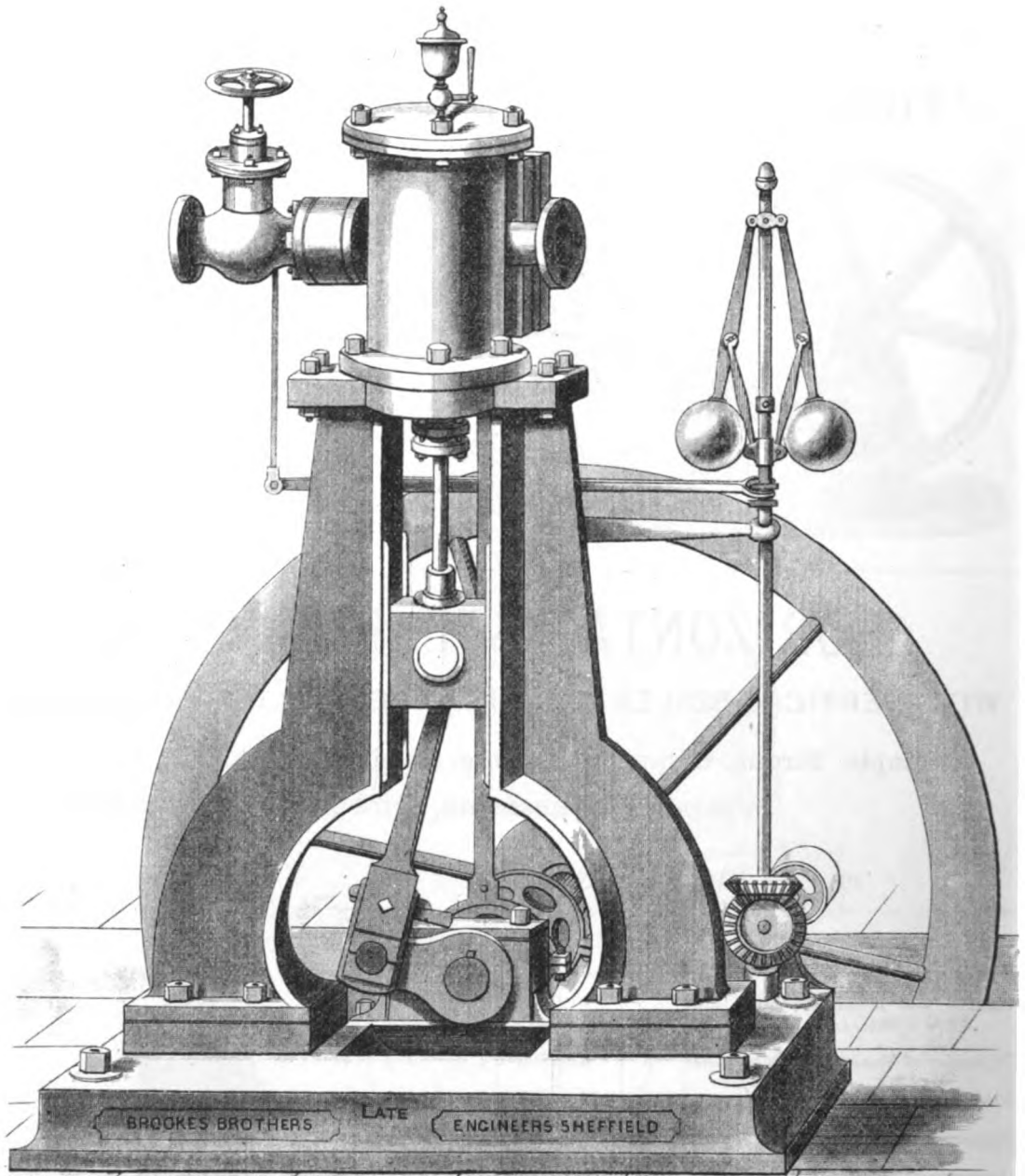
Pulley or Fly-wheel Shaft, extra, according to size.

Packing and Delivery at principal Seaports averages 6 per cent.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



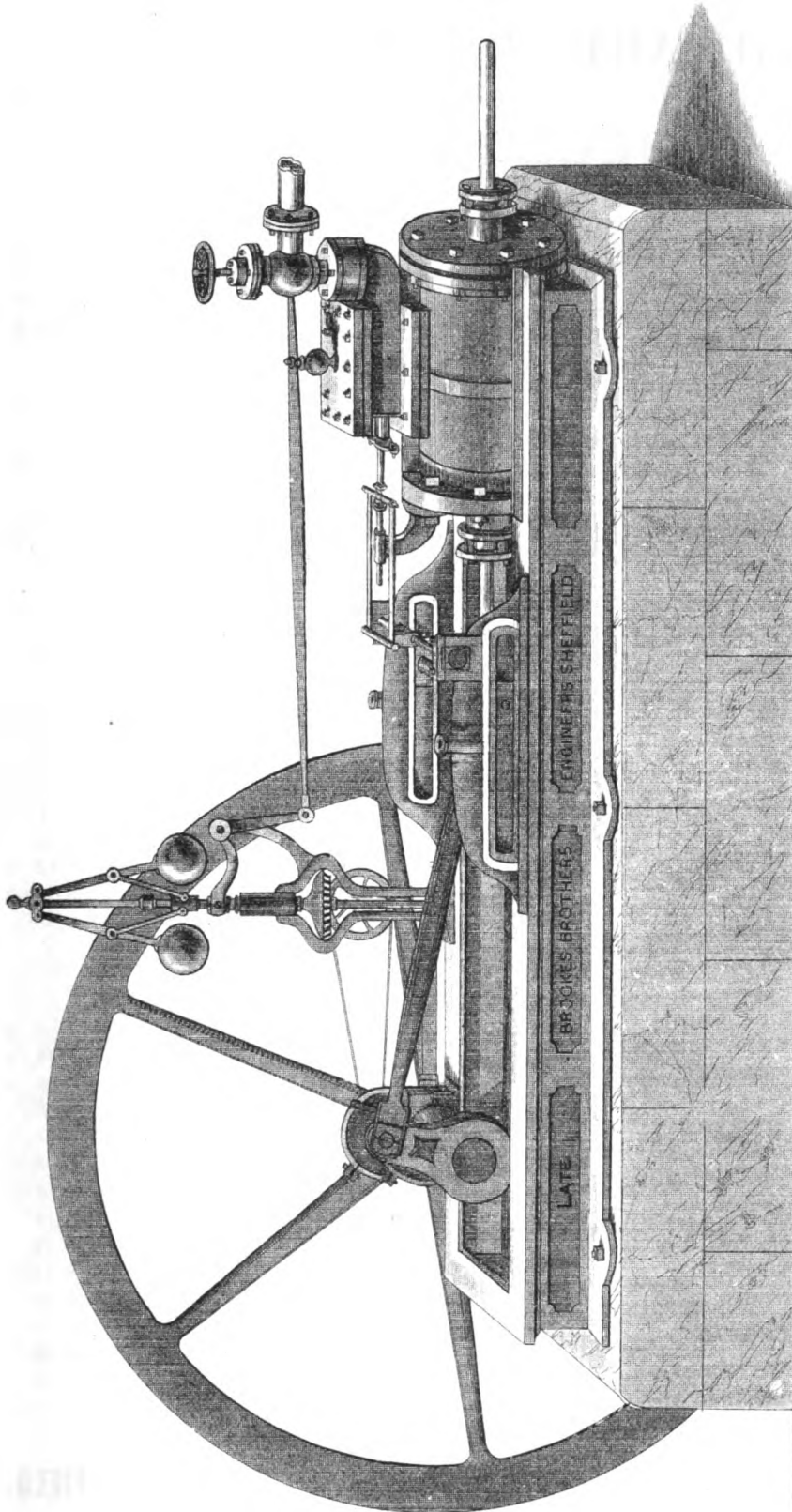
NO. 1114 B, IMPROVED VERTICAL HIGH PRESSURE STEAM ENGINE.

With Boiler of the best Staffordshire and Low Moor Plates, and necessary fittings.

Four Horse Power.....	£
Six Horse Power	£
Eight Horse Power	£

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



NO 1114A, IMPROVED HORIZONTAL HIGH PRESSURE STEAM ENGINE.

With Boiler of the best Staffordshire and Low Moor Plates, and necessary fittings.

4 Horse Power, 6 $\frac{1}{2}$ in. diameter of Cylinder	.....	£
6 ditto 8 $\frac{1}{2}$ in. ditto	.....	£
8 ditto 9 $\frac{1}{2}$ in. ditto	.....	£
10 ditto 10 $\frac{1}{2}$ in. ditto	.....	£
12 ditto 11 $\frac{1}{2}$ in. ditto	.....	£
14 ditto 13 in. ditto	.....	£
20 ditto 15 in. ditto	.....	£
25 ditto 17 in. ditto	.....	£
30 ditto 18 in. ditto	.....	£

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

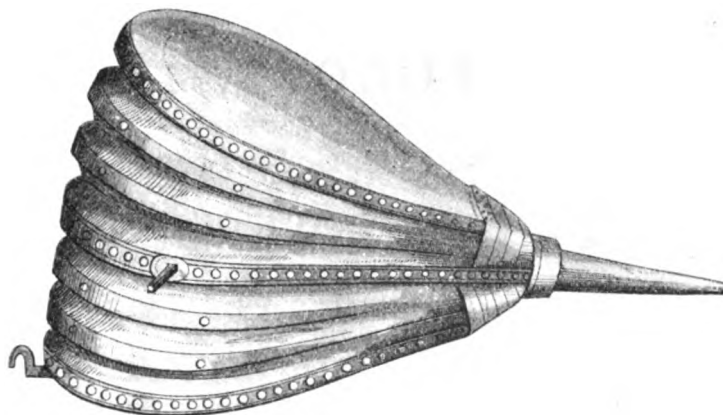
EDWARD BROOKES.

BELLOWS.

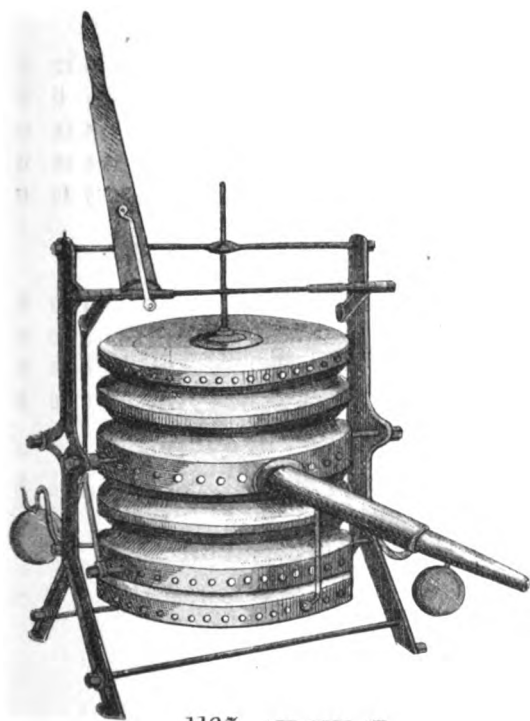
Dis- count.	No.				
	1126	IMPROVED CIRCULAR BELLOWS.			£ s. d.
		16 inches	.....		3 14 0
		18 "	.....		4 0 0
		20 "	.....		4 10 0
		22 "	.....		5 5 0
		*24 "	.....		6 0 0
		*26 "	.....		7 0 0
		*28 "	.....		8 8 0
		*30 "	.....		10 0 0
		32 "	.....		11 16 0
		34 "	.....		13 16 0
		36 "	.....		15 16 0
		36 inches and upwards worked by Steam Power.			
	1127	CIRCULAR PATENT DOUBLE BLAST BELLOWS.			
		18 inches	.....		5 15 0
		20 "	.....		6 12 0
		*22 "	.....		7 14 0
		*24 "	.....		8 16 6
		*26 "	.....		9 18 0
		*28 "	.....		11 10 0
		30 "	.....		13 8 0
		32 "	.....		15 0 0
		34 "	.....		17 10 0
		36 "	.....		20 0 0
		On account of the expense of carriage, the Weights are not included in the price, and are not sent with the Bellows.			
	1128	LONG SHAPED BELLOWS.			
		16 inches	.....		1 8 0
		18 "	.....		1 12 0
		20 "	.....		1 18 0
		22 "	.....		2 6 0
		24 "	.....		2 14 0
		26 "	.....		3 5 0
		*28 "	.....		3 16 0
		*30 "	.....		4 12 0
		*32 "	.....		5 10 0
		*34 "	.....		6 17 0
		*36 "	.....		8 16 0
		38 "	.....		11 0 0
		40 "	.....		13 16 0
		42 "	.....		16 10 0
		* These sizes are most used for general purposes.			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

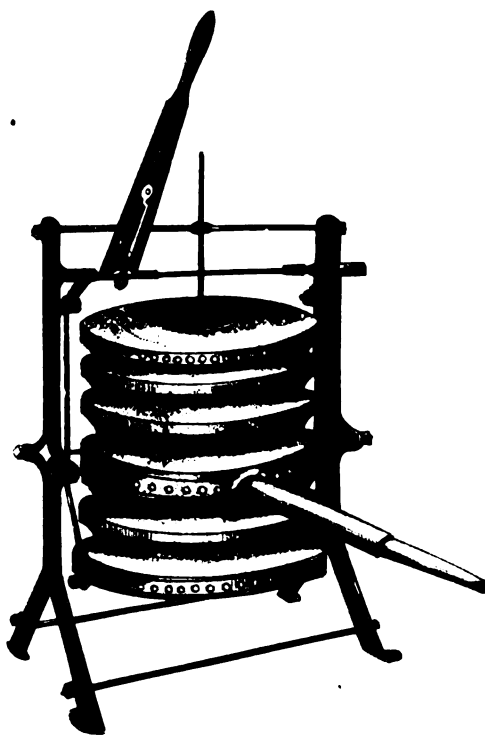
EDWARD BROOKES.



1128, *LONG SHAPE BELLOWS.*



1127 *CIRCULAR*
PATENT DOUBLE BLAST BELLOWS.



1126, *IMPROVED CIRCULAR BELLOWS.*

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

FORGES.

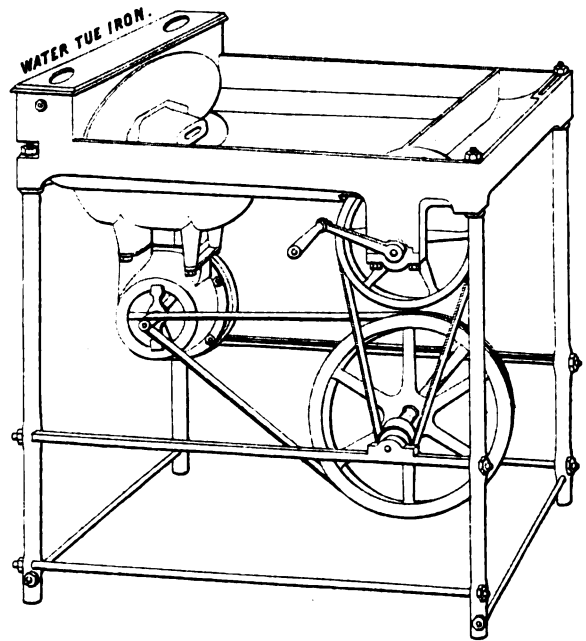
Ma- count.	No. 1139		
		PATENT PORTABLE FORGE.	
		No. 1. 18 in. Bellows	£ s. d. 6 5 0
		*No. 2. 20 in. ditto	6 18 0
		*No. 3. 22 in. ditto	7 14 0
		*No. 4. 24 in. ditto	8 16 0
		Mounted on Wheels, 7/6 extra.	
1180		PATENT PORTABLE FORGE, WITH DOUBLE BLAST BELLOWS.	
		18 inches	8 0 0
		20 "	9 0 0
		*22 "	10 6 0
		*24 "	11 12 0
		26 "	18 0 0
		Mounted on Wheels, 10/0 extra.	
1181		PATENT CIRCULAR FORGE.	
		X 0. 16 in. Bellows	4 12 0
		*X 1. 18 in. ditto	5 0 0
		*X 2. 20 in. ditto	5 16 0
		*X 3. 22 in. ditto	6 16 0
		*X 4. 24 in. ditto	7 18 0
1182		IMPROVED PORTABLE FORGE.	
		A. 18 in. Bellows	4 10 0
		*B. 20 in. ditto	5 0 0
		*C. 22 in. ditto	6 5 0
		*D. 24 in. ditto	7 10 0
		Mounted on Wheels, 5/6 extra, net.	
1184		Patent Fan Portable Forge, with cistern and water tue iron	8 5 0
		* These Sizes are most used for general purposes.	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

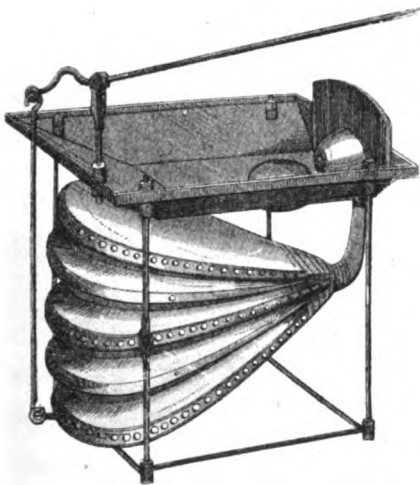
EDWARD BROOKES.



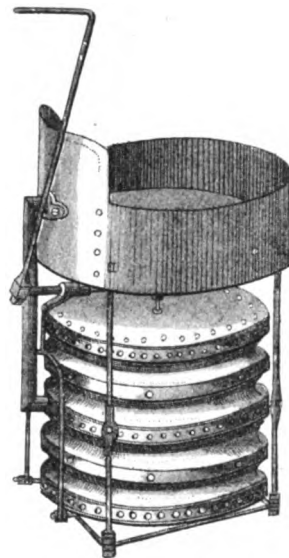
1129 *PATENT PORTABLE FORGE*



1134 *PATENT FAN PORTABLE FORGE.*



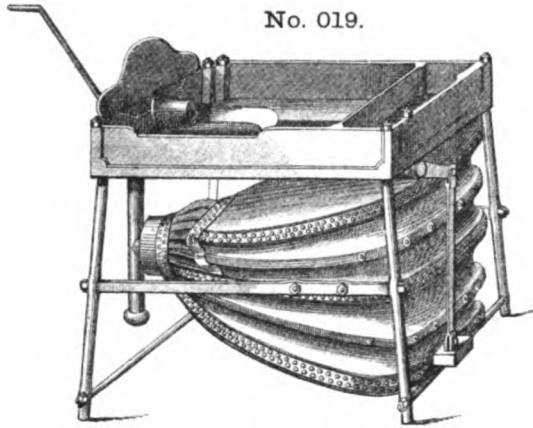
1132. *IMPROVED PORTABLE FORGE.*



1131 *PATENT CIRCULAR FORGE*

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



No. 019.

IMPROVED PORTABLE FORGE.

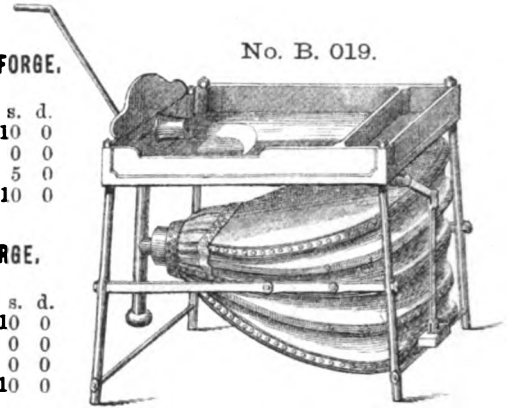
No. 019.

	£	s.	d.
18 inches	4	10	0
*20 "	5	0	0
*22 "	6	5	0
*24 "	7	10	0

POWERFUL FIELD FORGE.

No. B. 019.

	£	s.	d.
22 inches	8	10	0
24 "	9	0	0
26 "	10	0	0
28 "	11	10	0



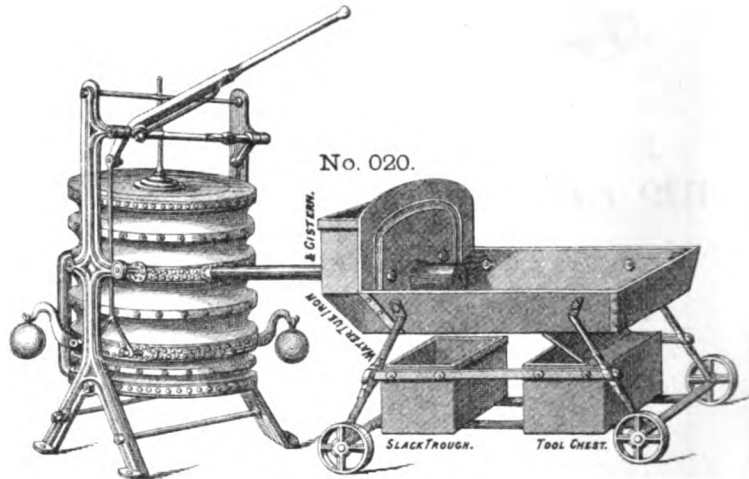
No. B. 019.

No. 020.

**DOUBLE BLAST BELLOWS,
WITH PORTABLE HEARTH, WATER TUB
IRON, AND CISTERN, COMPLETE.**

As Drawing No. 020.

HEARTHS WITH BELLOWS.	£	s.	d.
28 x 24 ditto 22 inches	14	0	0
30 x 26 ditto 24 "	15	10	0
*32 x 28 ditto 26 "	17	10	0
*34 x 30 ditto 28 "	19	10	0
*36 x 32 ditto 30 "	22	10	0
38 x 34 ditto 32 "	26	0	0
40 x 36 ditto 34 "	30	0	0
42 x 38 ditto 36 "	36	0	0



No. 020.

WROUGHT IRON PORTABLE FORGE.

VERY POWERFUL.

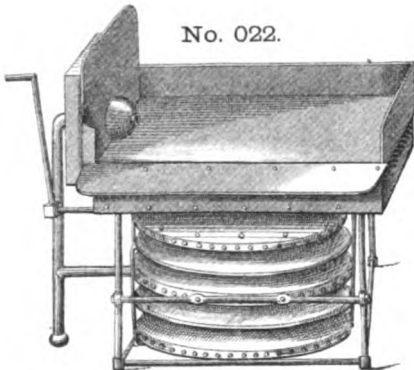
No. 022.

	£	s.	d.
24 inches	8	16	6
26 "	9	18	0
*28 "	11	10	0
*30 "	13	8	0

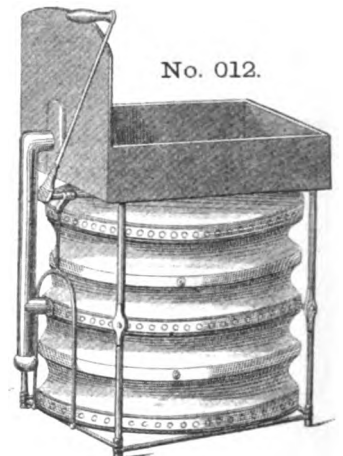
SHIP BUILDERS' SQUARE RIVETTING FORGE.

No. 012.

	£	s.	d.
X 0. 16 inches	5	0	0
X 1. 18 "	5	16	0
X 2. 20 "	6	15	0
X 3. 22 "	7	16	0
X 4. 24 "	8	18	0



No. 022.



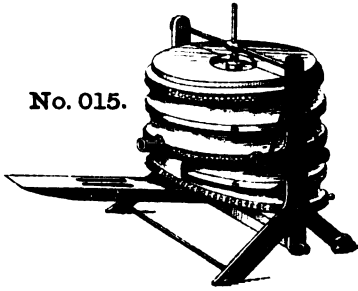
No. 012.

* These sizes are most used for general purposes. Warranted of superior quality.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

No. 015.



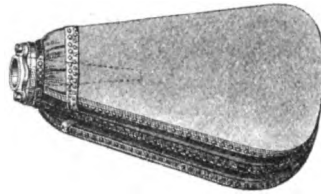
SILVERSMITHS', COPPERSMITHS', AND
BRAZIERS' BELLOWS.

WORKED BY FOOT.

No. 015.

		£	s.	d.
16 inches	.....	8	14	0
*18 "	.....	4	0	0
*20 "	.....	4	10	0
*22 "	.....	5	5	0
*24 "	.....	6	0	0
*26 "	.....	7	0	0

No. 016.

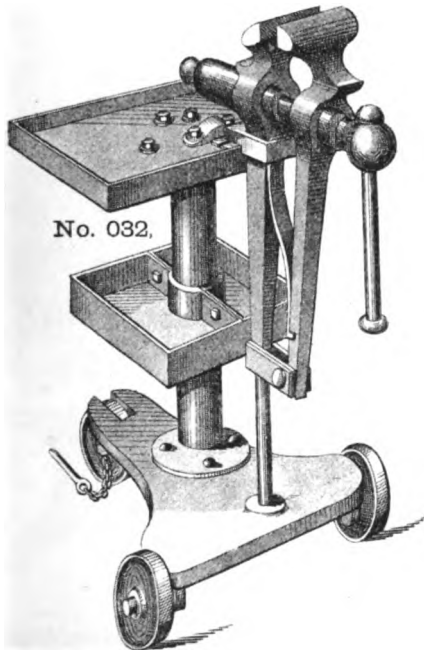


LONG SHAPE BELLOWS,
WITH PATENT REVERSIBLE PIPE, FOR

EXPORTATION.

No. 016.

		£	s.	d.
16 inches	.....	1	8	0
18 "	.....	1	12	0
20 "	.....	1	18	0
22 "	.....	2	6	0
24 "	.....	2	14	0
26 "	.....	3	5	0
*28 "	.....	3	16	5
*30 "	.....	4	12	0
*32 "	.....	5	10	0
*34 "	.....	6	17	0
*36 "	.....	8	16	0
*38 "	.....	11	0	0
*40 "	.....	18	16	0
42 "	.....	16	0	0



No. 032.

PORTABLE VICE BENCHES.

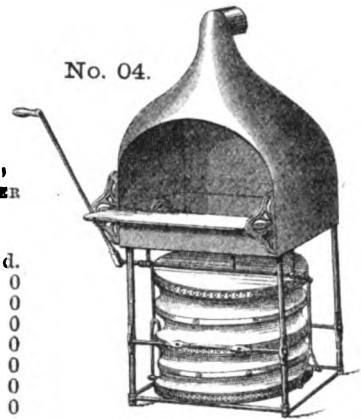
each, net.

No. 080. With Black Staple Vice	
No. 080. With Drawer	
No. 081. With Black Vice ..	
No. 081. With 2 Vices	
No. 082. With 3 Tool Boxes and run on 3 Wheels, with 43 lbs. Vice, 4½ in. Jaws	
Ditto ditto 5 "	
Ditto ditto 5½ "	
Ditto ditto 6 "	

STATIONARY OR PORTABLE FORGE,
WITH SINGLE BLAST BELLOWS, WATER
TUE IRON, AND PAN, COMPLETE.

No. 04.

		£	s.	d.
16 inches	.....	7	10	0
18 "	.....	8	8	0
20 "	.....	9	8	0
22 "	.....	10	10	0
24 "	.....	11	12	0
26 "	.....	12	14	0
28 "	.....	13	16	0



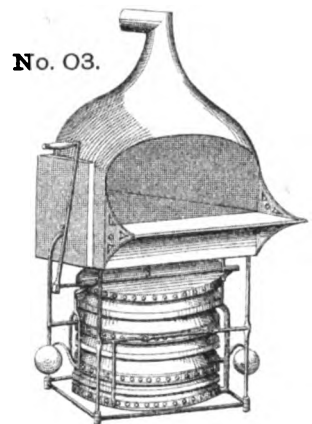
No. 04.

STATIONARY OR PORTABLE FORGE,
WITH DOUBLE BLAST BELLOWS, WATER
TUE IRON, AND PAN, COMPLETE.

No. 03.

		£	s.	d.
16 inches	.....	8	15	0
18 "	.....	9	13	0
20 "	.....	10	12	0
*22 "	.....	11	12	0
*24 "	.....	12	14	0
26 "	.....	13	14	0

* These Sizes are most used for general purposes. Warranted of superior quality.

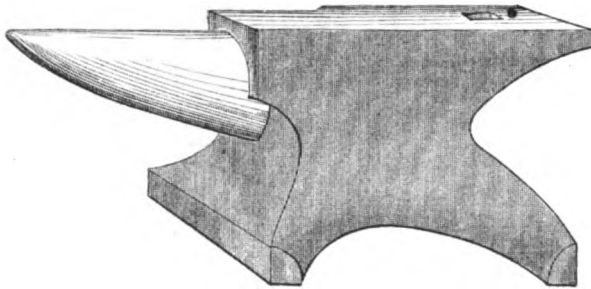


No. 03.

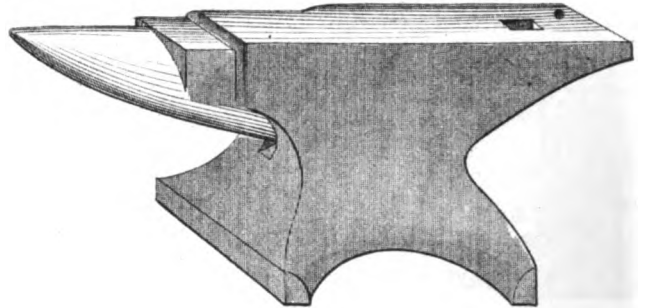
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

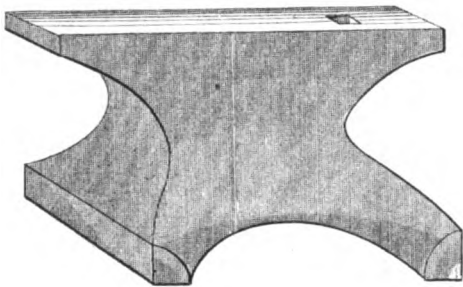
Farmers' Anvil.



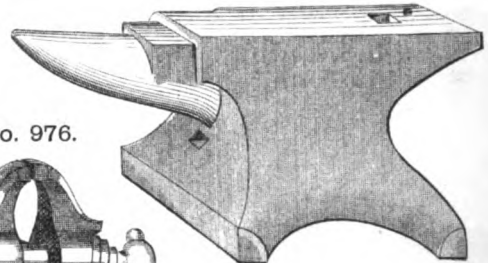
*Smiths' Anvil
London Shape.*



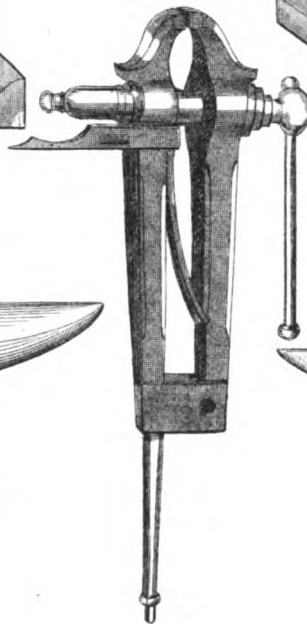
Double Arched Anvil.



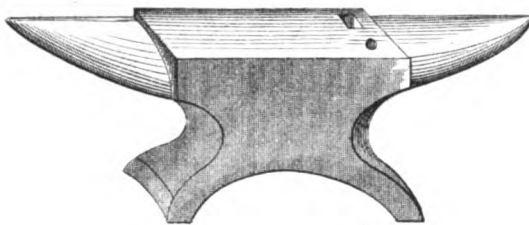
Blacksmith's Anvil.



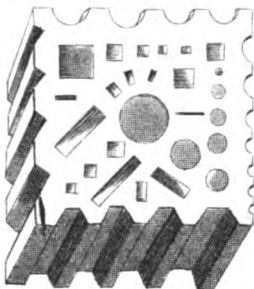
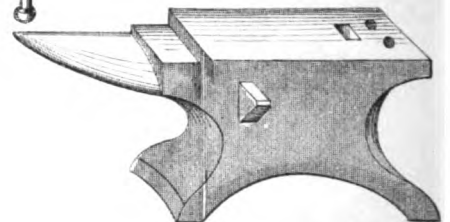
No. 976.



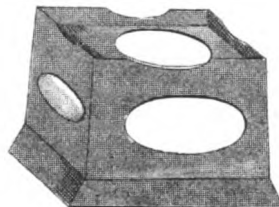
Double Piked Anvil.



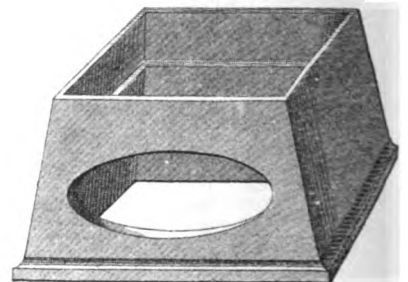
Coachsmiths' Anvil.



Swage Block.



*Anvil Block,
No. 1.*



*Anvil Block,
No. 2.*

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

302A

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

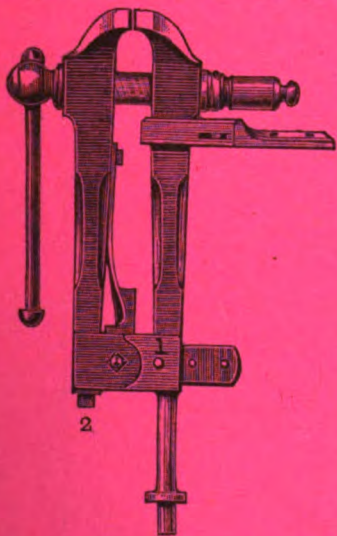
ANVILS, VICES, ANVIL AND SWAGE BLOCKS.

302B

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

IMPROVED RIGGING VICE.

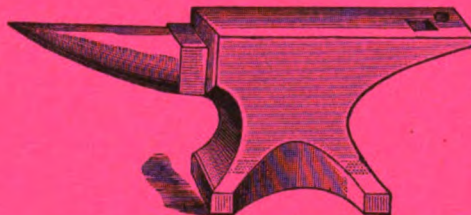


The above Vice is made to work parallel by moving the Pin in the joint (1) to three different lengths, and by slackening the Pin (2) it will work as a Taper Grip Vice, allowing one jaw to turn partially round, thus giving the advantages of an ordinary Staple Bench Vice, Parallel Vice, and Taper Grip Vice.

48/6 per Cwt.

WARRANTED SMITH'S ANVIL, WITH SOLID BICK,

MADE IN ONE SOLID PIECE OF BEST SCRAP IRON.



per Cwt.

More than 2 Holes charged extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ANVILS, VICES, ANVIL AND SWAGE BLOCKS.

Dis- count.	No.	BEST LONDON PATTERN ANVILS, TIED-IN BICKS, WARRANTED, 1 cwt. and upwards			
			Single beck,	Double beck,	Per cwt
		Second Quality, bar steel face.....	ditto	ditto	„
		Side Beck and Steeled Beck, extra.....			„
		More than 2 holes, charged extra.			
		Metal Anvil and Swage Block Stands.....			„
		Metal Swage Block.....			„
	976	Best Black Staple Bench Vice, with solid box			42/0 „
	977	Best Bright ditto ditto			48/0 „

For Water Tne Irons, Pans, and General Smith's Tools, see pages 247 and 248.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.**EDWARD BROOKES.**

Silent Fans for Blowing.

Silent Fans for Exhausting.

Silent Fans for Ventilation of Ships.

Silent Fans for Ventilation of Mines,
Buildings, &c.

Silent Fans and Steam Engines Combined.

Centrifugal Pumps.

Centrifugal Pumping Engines.

Turbine Water Wheels for any Fall or
Power.

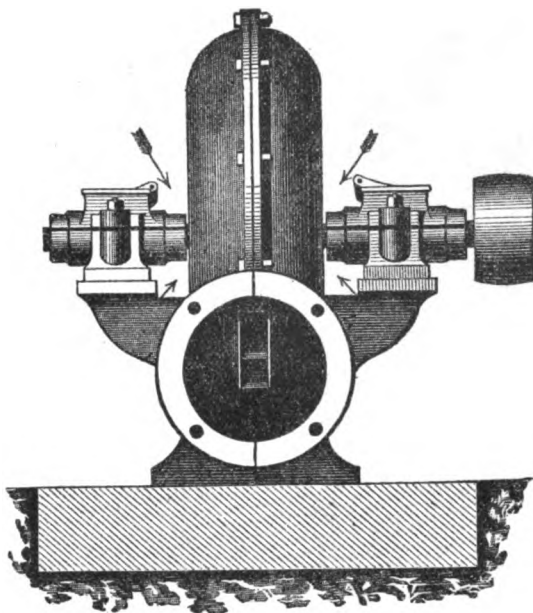
Smiths' Hearths.

General Engineering Work.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.



IMPROVED SILENT FANS,

For Smiths' Fires, Cupolas, Furnaces, or any other purpose requiring a strong blast or suction; for Engineers, Ironfounders, Shipbuilders, Boilermakers; for Print and Bleachworks, Breweries, Chemical and Varnish Works; for Woollen, Cotton, Flax, Flour, Paper Mills, and Feltworks; for Ventilating Tunnels and Mines; for exhausting foul air, and cooling the holds of vessels; for increasing the draught in chimneys; or for any other purpose where a strong current of air is required with little expenditure of power.

These IMPROVED SILENT FANS are guaranteed to work with less power than any other Fan hitherto brought out. They are manufactured with special regard to strong material (being fitted with steel spindles), good workmanship, long bearings, and efficient lubrication, and are offered to the public at a *much less cost than any other Fan*.

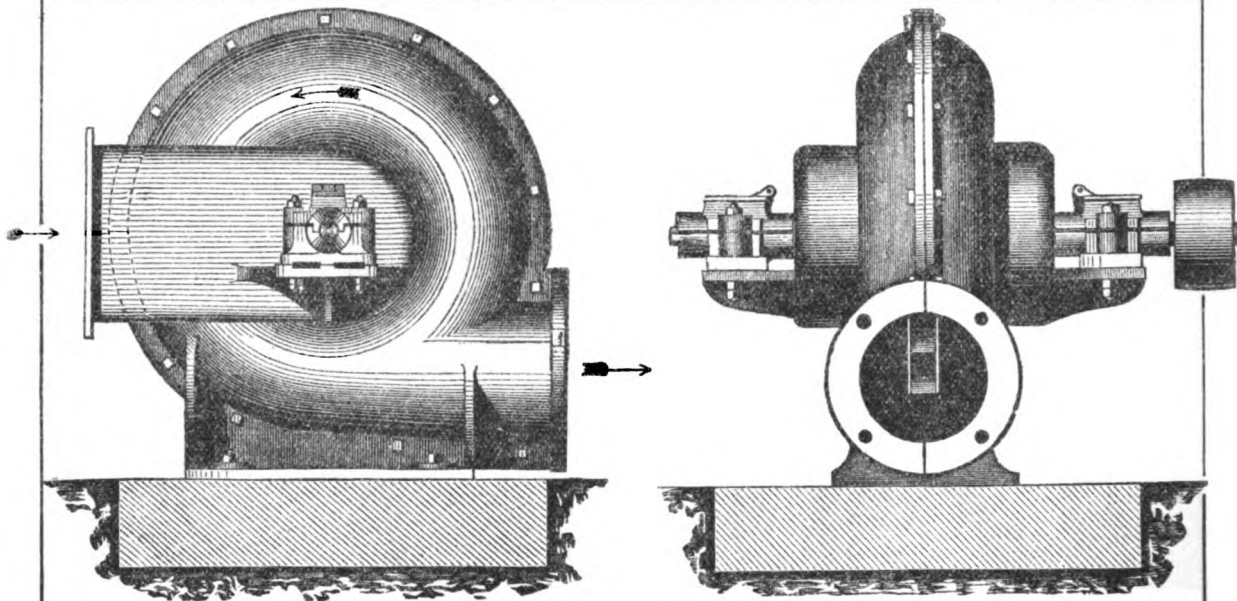
SIZES.	PRICES.			Diameter of Revolving Fan.	Diameter of Discharge.	No. of Fires Blown.	Tons Melted per hour.	No. of Revolutions per minute.	Diameter of Pulleys.	Breadth of Straps.
	£	s.	d.	inches.	inches.				inches.	inches.
No. 1	4	0	0	10	5	4	—	4000 to 4500	8	1½
" 1A	5	0	0	12	6	6	—	3500 to 4000	8½	1½
" 2	6	0	0	15	8	8	1½	3000 to 4000	4	2½
" 2A	8	0	0	17½	9	12	1½	2700 to 3500	5	2½
" 3	10	0	0	20	10	16	2½	2500 to 3300	6	3
" 4	18	10	0	25	12	24	3½	2000 to 2500	8	3½
" 5	16	10	0	30	14	32	5	1500 to 2000	9	3½
" 6	28	0	0	36	16	52	7½	1300 to 1700	10	4
" 7	30	0	0	40	18	72	10	1200 to 1500	12	4½
" 8	45	0	0	50	22	150	20	900 to 1100	15	5

COUNTERSHAFTS, with balanced pulleys, pedestals, hangers, or wall brackets, supplied with Fans at moderate prices.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

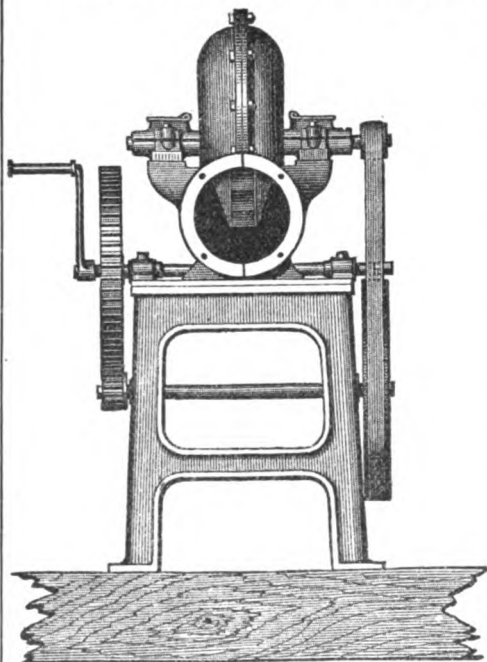
EDWARD BROOKES.



EXHAUSTING AND VENTILATING FANS.

These Fans are made on the same principle as the Blowing Fans, but the "in-takes" are provided with cast iron suction cases, with the bearings outside, so that dust, sand, fibres, vapours, heated gasses, &c., can pass through the Fan without touching or injuring the bearings. The suction cases are provided with flanges to attach piping, which may be conveyed to any part of a room, pit, tunnel, or sewer, from which is desired to exhaust.

The two suction cases may be joined into one to exhaust from any given place, or may be used separately, and in different directions. The cases can be made to have the openings pointed to any other direction to that shown above, and the Fan can be arranged to bolt to either floor, ceiling, or wall.



SIZES.		PRICES.		Diameter of Revolving Fan.	Diameter of Discharge.	Diameter of Pulleys.	Breadth of Straps.	No. of Revolutions per minute.	Cubic feet of air per minute.
No.		£	s.	in.	in.	in.	in.		
1		5	0	10	5	3	1½	4000	600
1A		6	10	12	6	3½	1¾	3200	900
2		7	10	15	8	4	2½	2500	1200
2A		10	0	17½	9	5	2½	2200	1800
3		12	10	20	10	6	3	2000	2500
4		16	15	25	12	8	3½	1700	4500
5		20	10	30	14	9	3½	1400	6000
6		28	15	36	16	10	4	1100	9000
7		37	10	40	18	12	4½	900	12000
8		56	0	50	22	15	5	700	25000

HAND VENTILATING FAN

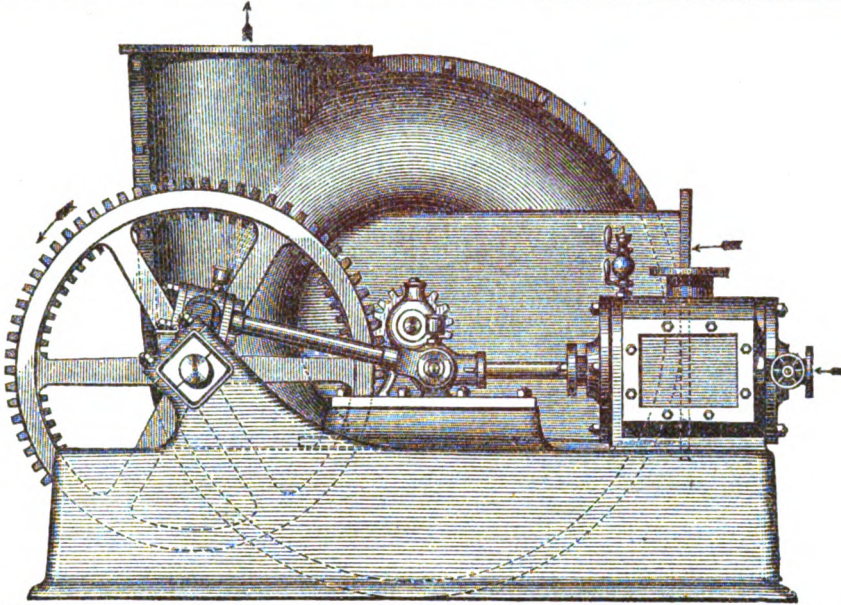
(No. 2 Size).

For Blowing..... £12 10 0
For Exhausting and Blowing £14 0 0

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

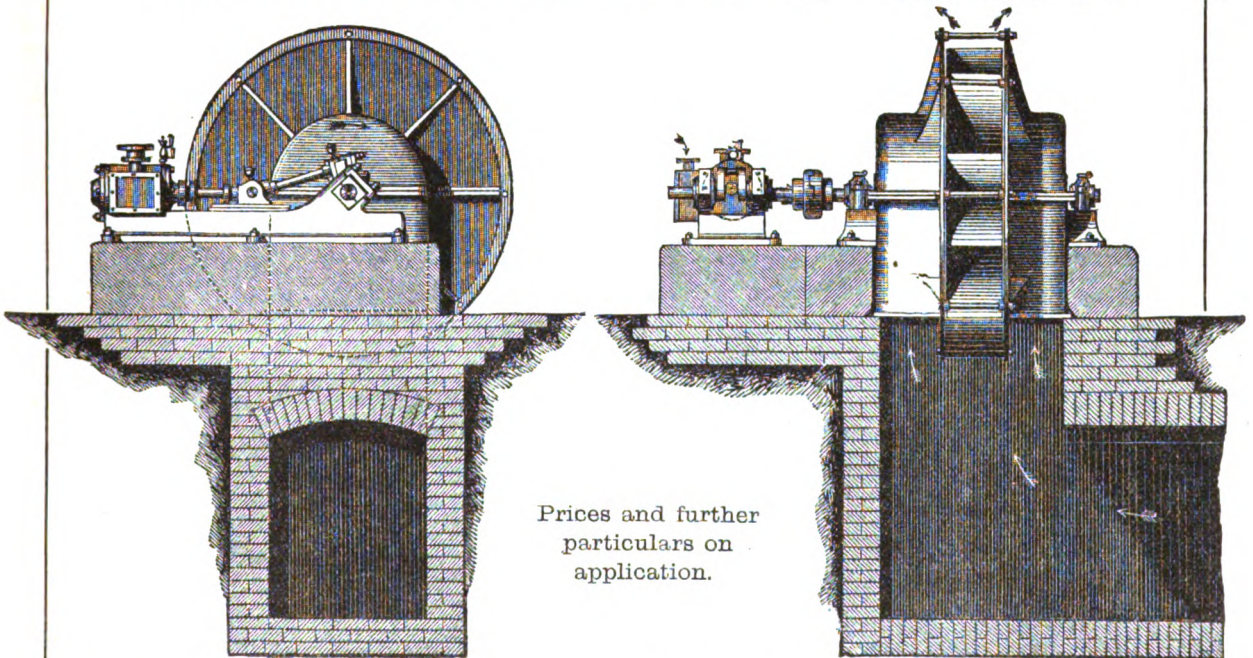


SILENT FAN AND STEAM ENGINE COMBINED,

For the Ventilation of Steamships, &c.

All working parts, as piston rod, cross-head, connecting and valve-rods, crank and fan shafts, are of Bessemer steel—joints, pins, and nuts case-hardened. The bearings are of great length, all working parts most carefully balanced, and the whole fitted and finished in a superior manner. Excellent lubrication is also provided to all the working parts. Each machine is supplied with a brass starting valve, lubricators, and set of case-hardened screwkeys.

VENTILATING ENGINES FOR MINES, TUNNELS, &c.



Prices and further
particulars on
application.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Fig. 1.

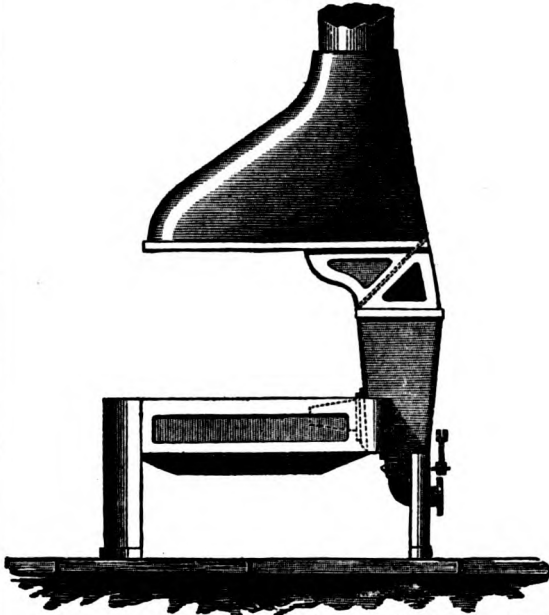
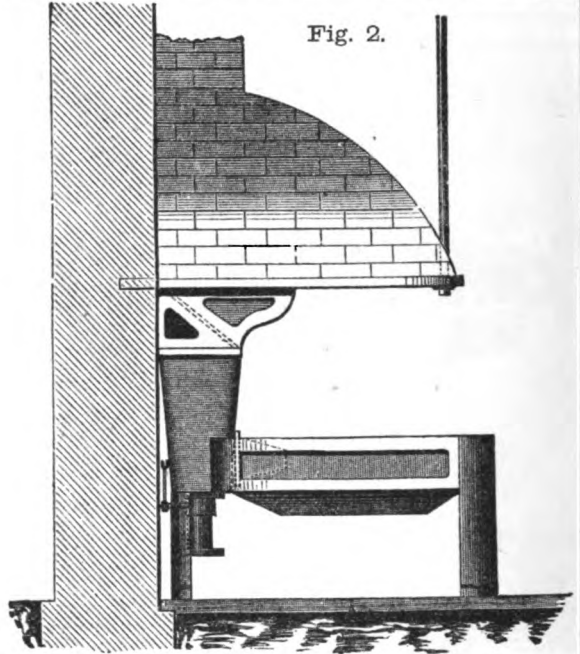


Fig. 2.



CAST IRON SMITHS' HEARTH.

These Hearths are supplied complete with Frame, Watertank, Tuyere, Blast Valve and Handle, and are adapted to almost any class of Smiths' work. They are easily erected, and require no brickwork of any kind. A large number have been supplied to Engineers, Shipbuilders, Collieries, and Mills, in this country and abroad. They are supplied either with cast iron smokebox, as per Fig. 1, or with Frame to carry brick hood, as per Fig. 2.

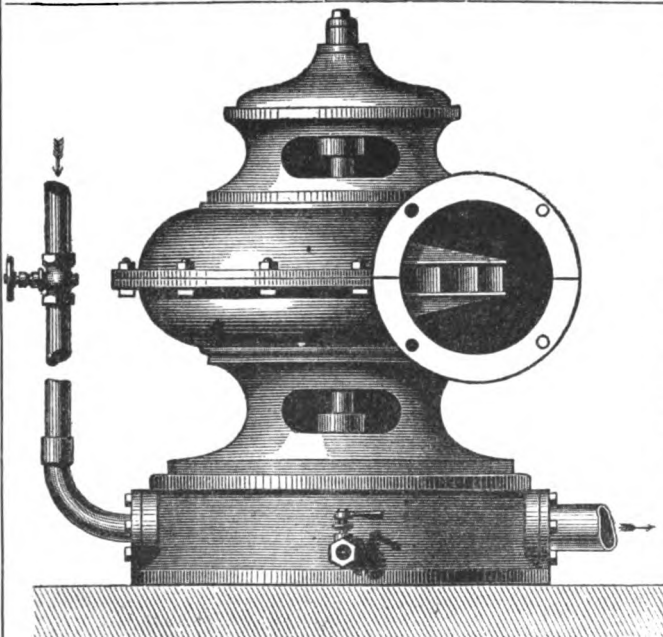
Price of Hearth, complete, as per Fig. 1, size of Hearth, 4 ft. by 4 ft.	£14	0	0
Ditto ditto ditto 2, ditto 4 ft. by 4 ft.	£12	0	0
Ditto ditto ditto 1, ditto 3 ft. 2 in. by 3 ft. 2 in.	£11	10	0

DIRECT-ACTING

STEAM FANS.

The annexed engraving shows an Improved Silent Fan and Steam Turbine combined, on one spindle, forming an exceedingly compact machine, and delivered ready for work, merely requiring connection with steam and air pipes.

These improved Machines, requiring no extra engine and gearing, and no strapping to drive them, are of immense advantage for supplying Blast to Smithies and Foundries, or Repairing Shops on Steamboats and Shipyards; for Boilermakers, Bridge Builders, and Contractors; for Engineering Works they are of great value for working overtime, as they are worked quite independent of any other engine. They are made of the very best materials, and provided with efficient means for lubrication. All spindles are of steel, and bearings of best hard gun metal, of such dimensions as to make wear and tear almost impossible.

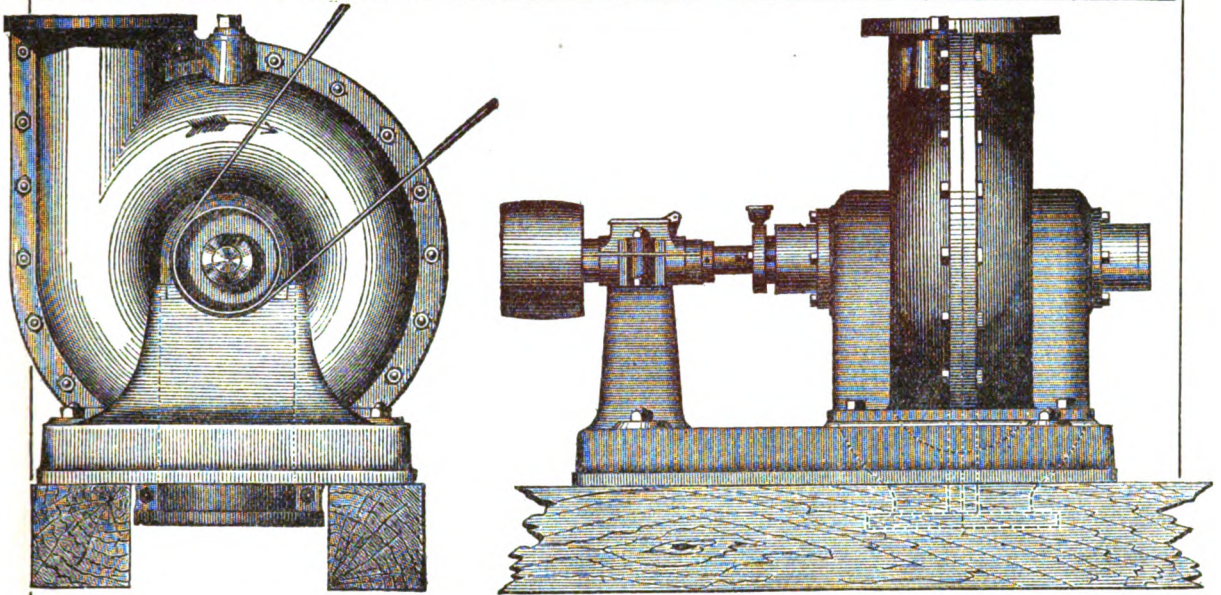


SIZES.	PRICES.	Fires Blown.	Tons Melted per hour.	Cubic feet of Air per minute.
No.	£			
1	16	4	—	300
2	26	8	1½	600
3	36	16	2½	1250

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

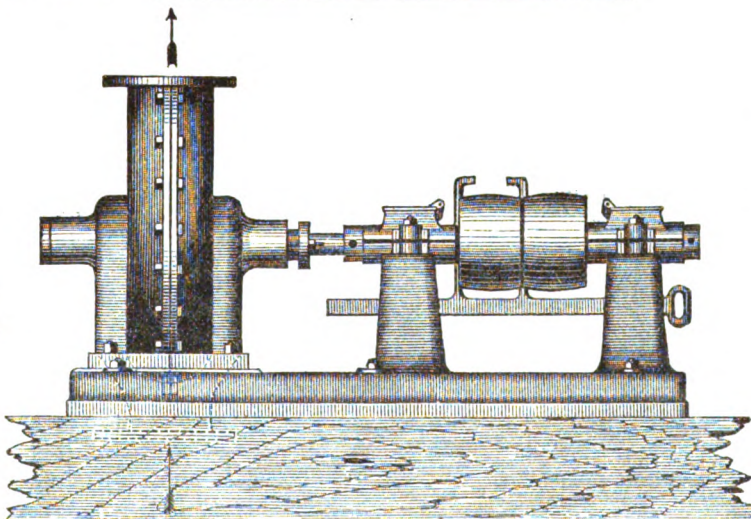
EDWARD BROOKES.



IMPROVED CENTRIFUGAL PUMPS.

These CENTRIFUGAL PUMPS are constructed on the most improved modern principles, and yield a high useful effect. They are manufactured of the very best materials—the shafts of steel, and the bushes of tough gun metal. The workmanship is of the very highest class, and cannot be surpassed. Particular attention being paid to good and strong proportions, long bearings, and efficient lubrications, they are strongly recommended to Shippers, Manufacturers, and Engineers, as being the best, most durable, and cheapest Centrifugal Pumps made.

For
 Paper Mills
 Breweries
 Dye Works
 Bleach Works
 Tanneries
 Sugar Refiners
 Chemical Works
 Distilleries
 Soap Works
 Gas Works
 Sewage Works



For
 Collieries
 Mines
 Filling Tanks
 Contractors
 Engineers
 Builders
 Irrigation
 Dry Docks
 Steam Ships
 Plantations
 Drainage Works

Centrifugal Pump, with Double Standards and Fast and Loose Pulleys.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICE LIST OF CENTRIFUGAL PUMPS.

No. of Pump.	Diameter of Suction and Discharge Pipes.	Quantity of Water raised per minute, in Gallons.	Size of Driving Pulleys.	Price of Pump, complete.	Price of Pump, with Double Standards, and Fast and Loose Pulleys.	Price of Pipes per foot in length, Joint Rings and Bolts included.	Price of Foot Valve and Grating.	Price of Cast Iron Faced Bends.	Price of Spare Disc Steel Spindle and Set of Bearings.
	inches.			£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1	2	40 to 70	3 × 3½	10 0 0	13 0 0	0 2 0	1 10 0	0 6 6	3 10 0
2	3	75 to 120	4 × 4	12 0 0	15 0 0	0 3 0	1 15 0	0 9 6	4 0 0
3	4	150 to 300	6 × 4	14 0 0	17 0 0	0 3 6	2 0 0	0 12 0	5 5 0
4	5	300 to 500	7 × 6	20 0 0	26 0 0	0 5 0	3 0 0	0 15 0	7 0 0
5	6	500 to 750	9 × 6	26 0 0	35 0 0	0 6 0	3 15 0	0 19 0	9 10 0
6	8	800 to 1200	12 × 9	36 0 0	45 0 0	0 9 0	5 0 0	1 9 0	14 0 0
7	10	1300 to 2000	15 × 9	44 0 0	55 0 0	0 12 0	6 0 0	1 12 6	17 0 0
8	12	2000 to 3000	18 × 10	56 0 0	70 0 0	0 15 0	8 0 0	2 6 0	21 0 0
9	15	3000 to 5000	20 × 12	75 0 0	95 0 0	0 18 0	11 0 0	2 17 6	28 0 0
10	18	5000 to 8000	24 × 12	115 0 0	150 0 0	1 4 0	16 0 0	3 10 0	40 0 0

These Pumps will throw water to a height of 80 feet above water level.

If the Pump is placed above the fluid to be raised, a Foot Valve is required to retain the water when the Pump is not at work.

In erecting these Pumps, particular attention should be given to the connection of Suction Pipes, which must be perfectly tight, otherwise the action of the Pump will be stopped.

All bends in suction and discharge pipes should be made as gradual as possible, and all sudden contractions avoided.

When starting the Pump, fill the suction pipes and the pump through the filling plug in top and set on the Pump.

Each size of Pump requires a different speed for various heights, particulars of which will be given on application.

If desired, the Pumps can be made with the suction pipes at the side, without extra charge.

Estimates and particulars given for pumps with vertical spindles; Counter-shafts with pulleys and pedestals or hangers, wrought iron pipes, universal bends, balljoints, hose pipes of leather or India-rubber, and valves of all kinds and sizes.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

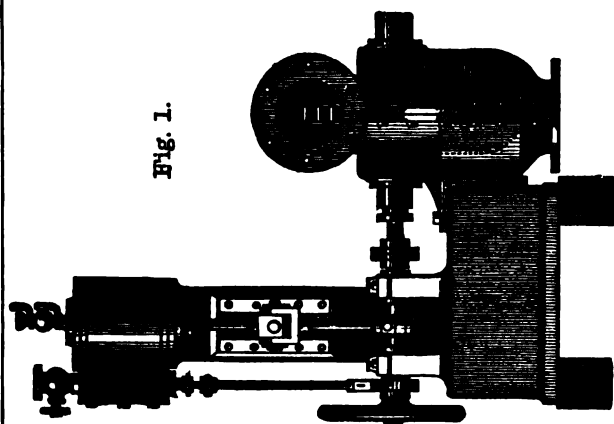


Fig. 1.

VERTICAL PUMP ENGINE.

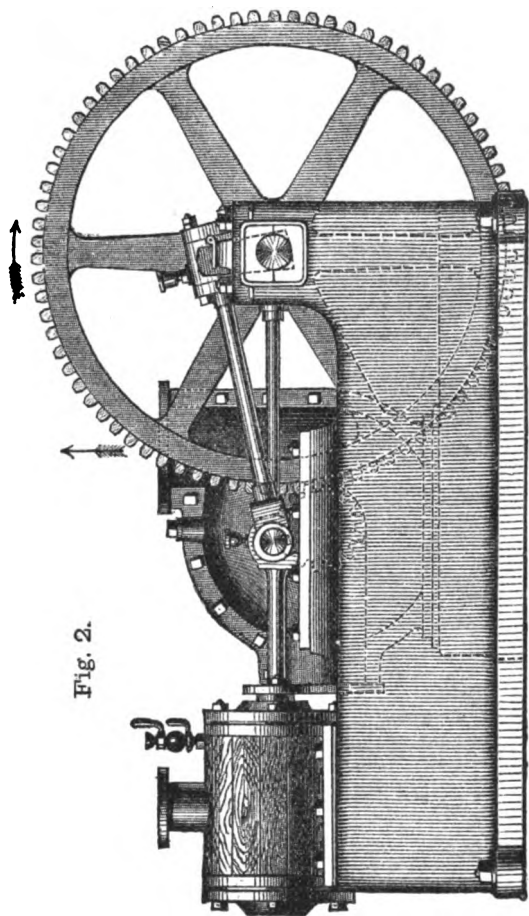


Fig. 2.

PUMP ENGINE FOR HIGH LIFTS.

DIRECT-ACTING CENTRIFUGAL PUMPING ENGINES.

These Engines are made either direct-acting, as per Fig. 1, or the Pumps are driven by mortise gearing, as per Fig. 2. The first method is especially adapted for lower lifts, the second for high lifts.

The Centrifugal Pumping Engines are applied for circulating the water in surface condensers of marine engines, for emptying graving docks, or pumping out the water ballast or bilge-water in ships. They are also well adapted for irrigation and drainage, filling tanks, and a vast variety of applications for manufacturing purposes.

Their construction and workmanship is of the very highest class. The bed-plates are made rigid and hollow, large bearing surfaces are provided for all the working parts; crank-shafts, pump-shafts, piston-connecting and eccentric rods are made of steel; cylinders jacketed, and great care is taken to have all working parts easily and well lubricated. Each Engine is supplied with a starting valve, and a set of case-hardened keys.

Estimates and specifications will be given on application, stating the quantity of water and the height to which it has to be raised.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

BOLTS AND NUTS.

(Prices subject to the fluctuations of the Market.)

Notice.—All intermediate sizes, above $\frac{1}{2}$ inch, will be charged at the same price as given for the immediately preceding size. The heads and nuts of bolts, &c., are made to "standard" sizes, and the threads cut to "Whitworth's" pitch. Any deviation therefrom will be charged for extra.

In ordering, please give the length from under the head to point, except with countersunk heads and bolt ends, which are measured over all. In every case state the diameter, length, and description of head, neck, and nut required.

The goods are all made from best iron, specially prepared for the required purpose. Packing—all small bolts and coach screws, sold by count, will be made up in parcels of 1 gross each; if sold by weight, in parcels of 14 lbs. each. The cost of packing in bags is included in the price. The extra charge for packing in casks or cases for shipment will be 20/0 per ton; or for 1 or 2 cwt. iron or wood kegs, 30/0 per ton.

ENGINEERS' BRIGHT HEXAGON NUTS, TAPPED AND HIGHLY FINISHED, TO WHITWORTH'S SIZES.

PER GROSS.

Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
10/0	10/0	11/0	11/0	12/0	15/6	21/0	29/0
							42/0
							57/9
							75/0
							89/0
							105/0
							122/6
							167/0
							190/0
							211/0

MACHINE MADE NUTS, WHITWORTH'S STANDARD SIZES.

PER CWT.

Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
Square, untapped	15/6	14/6	14/0	15/0	16/0	17/3	19/0
Ditto tapped	20/0	17/9	17/3	19/0	20/0	21/6	23/4
Hexagon, untap.	20/0	17/9	16/9	17/9	19/0	20/0	21/6
Ditto tapped	24/6	21/3	20/3	21/9	22/6	24/6	25/0
							26/6

HAND MADE NUTS, WHITWORTH'S STANDARD SIZES.

PER CWT.

Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
Square, untapped	10d.	1/1	1/9	2/6	22/3	21/3	20/3
Ditto tapped	1/3	1/5	2/4	2/11	26/9	25/9	24/9
Hexagon, untap.	2/0	2/3	2/9	3/8	33/6	28/6	25/6
Ditto tapped	2/4	2/7	3/3	3/9	37/6	31/6	28/6
							31/0

BOLTS AND NUTS.

With Square Heads, Round Necks, and Hexagon Nuts.

Inches	PER GROSS.			PER CWT.		
	$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$	1
2 in. long and under	4/3	4/9	7/9	26/9	22/9	21/3
2 $\frac{1}{2}$ in. up to & including 3 in.	5/3	5/9	8/3	24/9	21/3	19/9
Above 3 in. up to 4 $\frac{1}{2}$ in.	5/6	5/6	8/0	27/9	22/3	20/0
" 4 $\frac{1}{2}$ " 6 "	5/6	5/6	8/3	28/3	26/3	21/3
" 6 " 9 "	5/6	5/6	8/3	26/9	24/6	20/0
" 9 " 24 "	5/6	5/6	8/3	26/9	23/6	19/0
" 24 " 48 "	5/6	5/6	8/3	24/9	22/6	18/0
Extra, per gross.	6d.	9d.	1/0	1/3	6/8	5/6
Galvanising per cwt.	..	..	6/8	5/6	5/6	5/6

BOLTS AND NUTS.

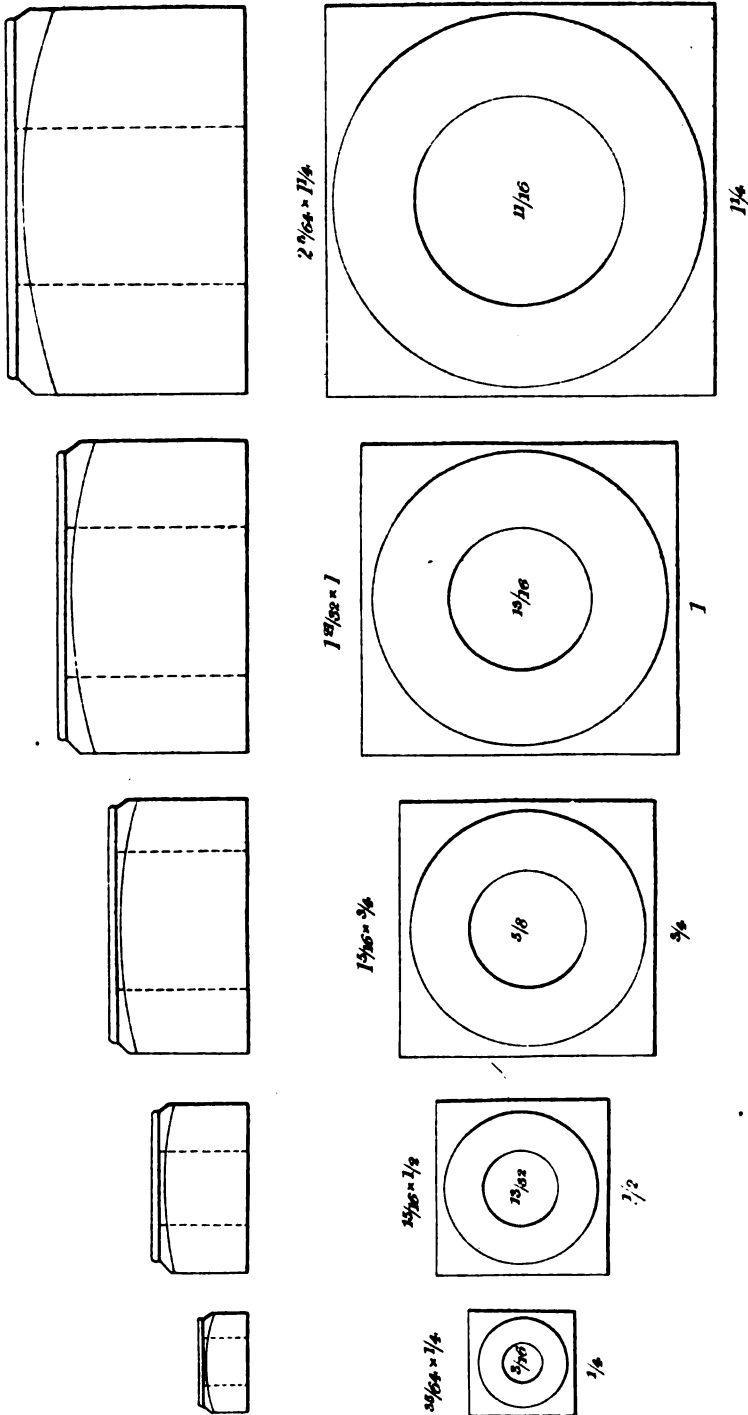
With Square Heads, Square Necks, and Square Nuts.

Inches	PER GROSS.			PER CWT.		
	$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$	1
2 in. long and under	3/9	4/6	6/3	7/6	22/9	21/9
2 $\frac{1}{2}$ in. up to & including 3 in.	3/9	4/6	6/3	7/6	24/6	21/0
Above 3 in. up to 4 $\frac{1}{2}$ in.	3/9	4/6	6/3	7/6	22/3	20/0
" 4 $\frac{1}{2}$ " 6 "	3/9	4/6	6/3	7/6	21/3	19/0
" 6 " 9 "	3/9	4/6	6/3	7/6	20/0	17/9
" 9 " 24 "	3/9	4/6	6/3	7/6	19/0	15/9
" 24 " 48 "	3/9	4/6	6/3	7/6	18/0	15/9
Extra, per gross.	6d.	9d.	1/0	1/3	5/6	5/6
Galvanising per cwt.	..	..	6/8	5/6	5/6	5/6

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

MACHINE MADE SQUARE NUTS, TO WHITWORTH'S STANDARD GAUGE.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

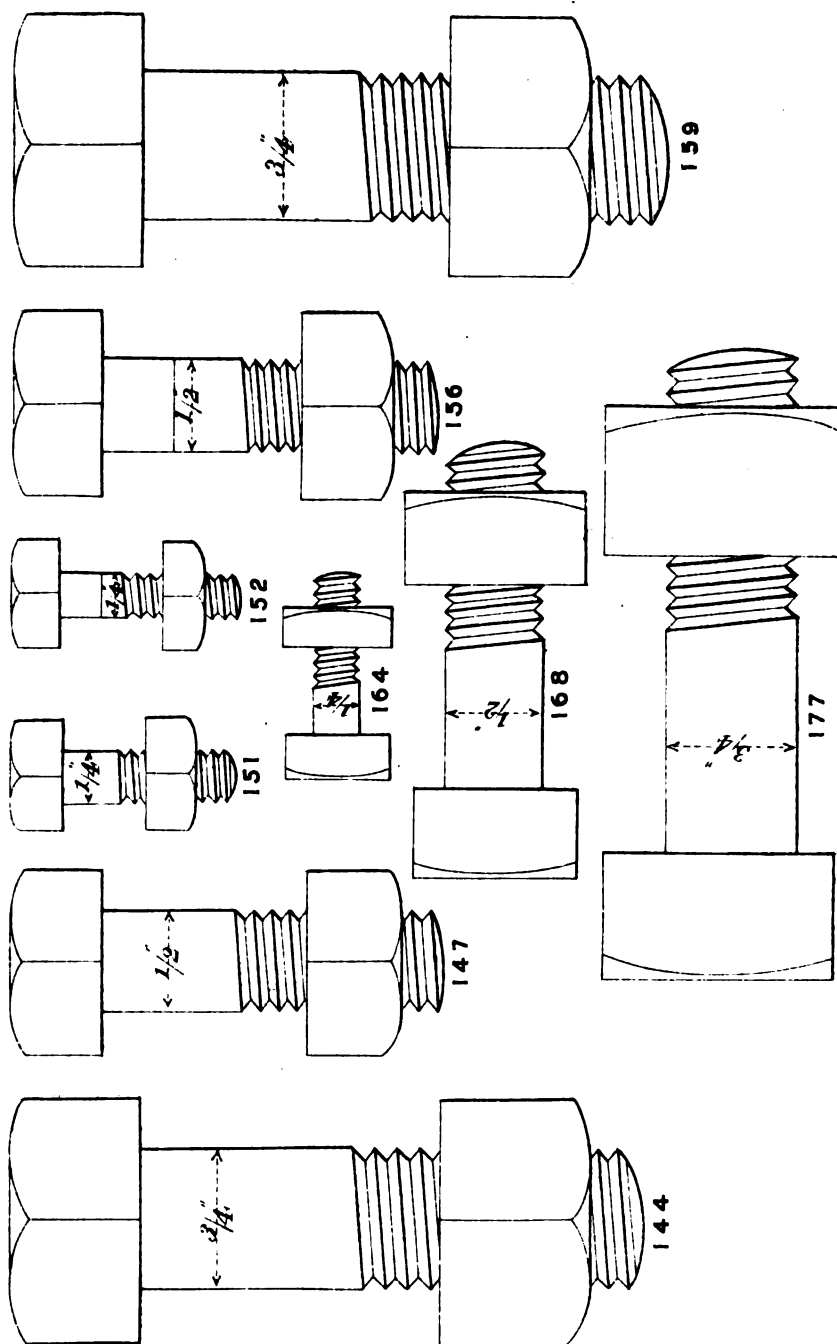
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

ENGINEERS' BOLTS AND NUTS.

Dis- count.	BOLTS AND NUTS, With Square Heads, Round Necks, and Square Nuts.										BOLTS AND NUTS, With Hexagon Heads, Square Necks, & Hexagon Nuts.									
	PER GROSS.					PER CWT.					PER GROSS.					PER CWT.				
	Inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	Inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
2 in. long and under $2\frac{1}{2}$ in. up to and in- cluding 3 in. ..	3/4	4/0	5/7	6/9	24/6	21/6	20/6	20/6	20/6	20/6	5/0	5/8	7/6	8/9	30/0	25/6	24/0	22/3	24/0	22/3
Above 3 in. up to 4 in.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.	Advancing 2 in. for every 1 in. long.
" 4 in. up to 4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.	4 in.
" 6 in. up to 6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.	6 in.
" 9 in. up to 9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.	9 in.
" 24 in. up to 24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.	24 in.
Extra, per gross Galvanizing per cwt.	6d.	9d.	1/0	1/3	5/6	5/6	5/6	5/6	5/6	5/6	6d.	9d.	1/0	1/3	5/6	5/6	5/6	5/6	5/6	5/6

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

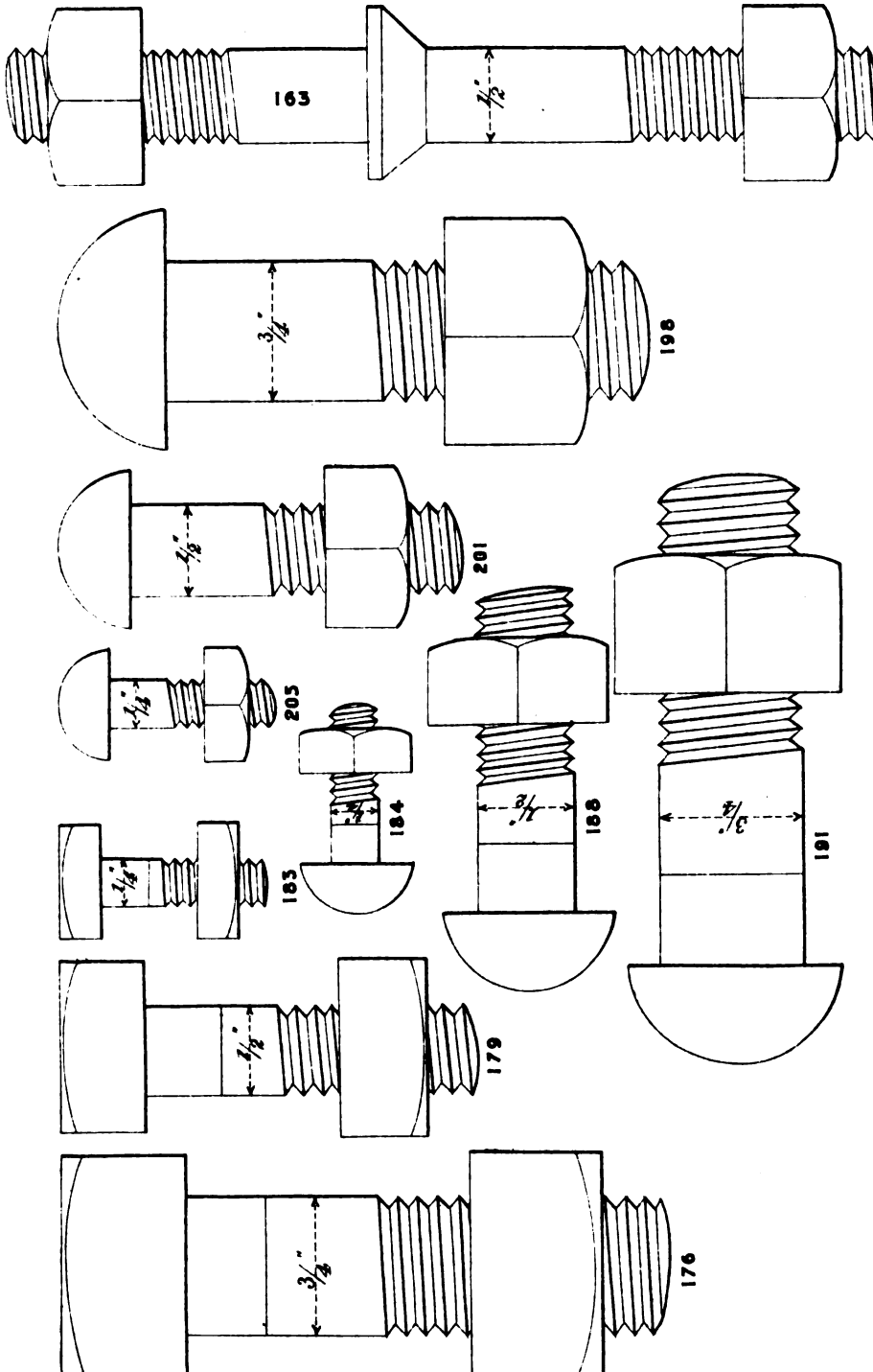
BLACK BOLTS AND NUTS.

Dis- count.	BLACK BOLTS AND NUTS, With Cup, Cheese, or Countersunk Heads, Square Necks, and Square Nuts.										BLACK BOLTS AND NUTS, With Cup, Cheese, or Countersunk Heads, Square Necks and Hexagon Nuts.																																																																																																																																																																																																																																																																																																																																																																
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Inches	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	Inches	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\$

BRIGHT HEAD COACH BOLTS,
With Cup, Cheese, or Countersunk Heads, Square
Necks, and Square Nuts.

Inches	PER GROSS.				PER CWT.			
	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$ & up.
2 in. long and under $2\frac{1}{2}$ in. up to and in- cluding 3 in. ..	3/9	$\frac{4}{6}$	$\frac{7}{3}$	6/0	7/6	26/3	22/9	21/9
					8/9	24/6	21/9	20/9
Above 3 in. up to $4\frac{1}{2}$ in. " $4\frac{1}{2}$ " 6 " " 6 "	Advancing sd. for every $\frac{1}{4}$ in. or fraction of $\frac{1}{4}$ in. over 2 in. long.				per cwt. 26/9 25/9 24/9 23/9	22/3 20/9 20/9 20/9	20/3 19/0 18/9 17/9	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

POINTED COACH SCREWS AND BOLT ENDS, MACHINE SET SCREWS, &c.

Dis-
count.

POINTED COACH SCREWS, With Square Heads.										POINTED COACH SCREWS, With Hexagon Heads.									
PER GROSS.					PER CWT.					PER GROSS.					PER CWT.				
Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
2 in. long and under	2/10	3/6	4/6	5/6	23/6	22/3	23/6	26/9	5/6	2 in. long and under	3/3	3/9	4/9	5/9	28/9	24/6	23/6	23/6	23/6
2½ in. up to and in- cluding 3 in. ..	Advancing 8d. for every ¼ in. or fraction of ¼ in. over 2 in. long.				5/3	22/0	20/3	24/0	6/6	2½ in. up to and in- cluding 3 in. ..	Advancing 8d. for every ¼ in. or fraction of ¼ in. over 2 in. long.				5/6	25/0	23/0	21/6	21/6
Above 3 in. up to 4 in.	27/3	27/3	27/3	27/3	20/3	19/0	22/6	22/6	27/3	Above 3 in. up to 4 in.	28/6	28/6	28/6	28/6	23/3	21/3	20/6	20/6	20/6
" 4½ " 6 " long.	26/0	24/6	26/0	24/6	20/3	18/0	20/3	20/3	26/0	" 4½ " 6 " long.	26/9	26/9	26/9	26/9	22/3	20/3	19/6	19/6	19/6
" 6 "	26/0	24/6	26/0	24/6	20/3	18/0	20/3	20/3	26/0	" 6 "	26/9	26/9	26/9	26/9	21/3	19/3	18/6	18/6	18/6
Extra, } per gross Galvanizing } per cwt.	6d. ..	9d. ..	1/0 6/8	1/3 6/8	5/6 5/6	5/6 5/6	5/6 5/6	5/6 5/6	1/3 6/8	Extra, } per gross Galvanizing } per cwt.	6d. ..	9d. ..	1/0 6/8	1/3 6/8	5/6 5/6	5/6 5/6	5/6 5/6	5/6 5/6	5/6 5/6

MACHINE SET SCREWS,
With Hexagon or Square Heads.

PER GROSS.					PER CWT.				
Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
1 in. long and under	2/10	3/6	4/6	5/4	6/6	29/0	27/9	27/9	27/9
Above 1 in. up to 1½ in.	3/6	4/0	5/4	6/3	7/6	27/9	26/9	26/9	26/9
" 1½ " 2 " "	4/0	4/9	5/10	7/0	8/6	26/9	25/9	25/9	25/9
" 2 " 2½ " "	4/10	5/7	6/8	8/2	9/10	25/3	24/3	24/3	24/3

Special Quotations given for Ship and Girder Rivets.
Special Quotations given for Boiler Rivets made from best
Yorkshire Iron.

BEST BOILER RIVETS,
With Snap, Pan, Cheese or Countersunk Heads.

PER GROSS.					PER CWT.				
In.	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
21/3	19/0	16/9	14/9	14/6	12/9	11/9	11/9	11/9	11/9

BOLT ENDS.

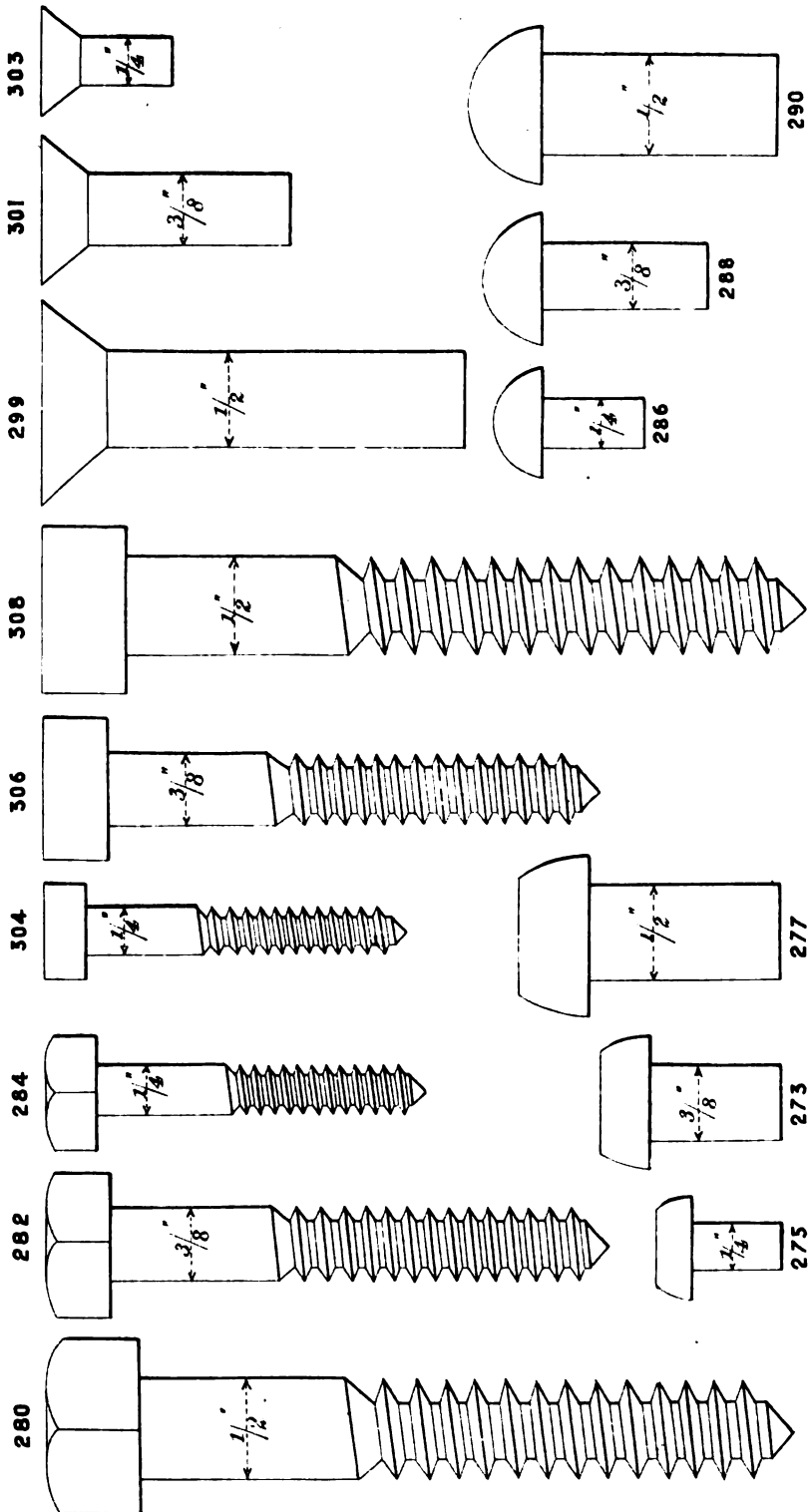
PER CWT.					PER CWT.				
Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$
With Square Nuts ..	17/9	16/9	14/0	12/9	12/3	13/3	14/6	15/6	16/9
With Hexagon Nuts	21/3	19/6	15/6	14/0	13/3	14/6	15/6	16/9	16/9

WASHERS.

PER CWT.					PER CWT.				
Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
13 to 6 W.C.	16/0	15/6	14/6	14/0	12/9	12/9	12/9	12/9	12/9

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPLIT COTTER AND LINCH PINS.

Dis- count.	No.	Length to ..	1	1½	1½	1½	2	2½	2½	2½	3	3½	3½	3½	4	inches.
	12	.....	1/1	1/2	1/4	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/8	2/10	3/0	per gross.
	11	.....	1/2	1/3	1/5	1/7	1/9	1/11	2/1	2/3	2/5	2/7	2/9	2/11	3/2	"
	10	.....	1/3	1/4	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/8	2/10	3/0	3/3	"
	9	.....	1/4	1/5	1/7	1/9	1/11	2/1	2/3	2/5	2/7	2/9	3/0	3/3	3/6	"
	8	.....	1/5	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	"
	7	.....	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/0	"
	6	.....	1/9	1/11	2/1	2/3	2/5	2/8	2/11	3/2	3/5	3/8	3/11	4/2	4/6	"
	5	.....	2/0	2/3	2/6	2/9	3/0	3/3	3/6	3/9	4/0	4/4	4/8	5/0	5/4	"
	4	.....	2/4	2/7	2/11	3/3	3/6	3/9	4/0	4/4	4/8	5/0	5/6	5/10	6/3	"
	3	.....	2/8	3/0	3/4	3/8	4/0	4/4	4/8	5/0	5/6	6/0	6/6	7/0	7/6	"
	2	.....	3/0	3/4	3/8	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/6	"
	1	.....	3/4	3/8	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/8	9/4	"

Length	1½	1½	2	2½	2½	2½	3	3½	3½	3½	4	4½	4½	4½	5	5½	5½	inches.
5-16th	7/0	7/6	8/0	8/6	9/0	9/8	10/4	11/0	11/8	12/6	13/4	14/0	14/8	15/4	16/0	16/8	17/4	per gross.
¾ .....	..	..	9/8	10/4	11/0	11/8	12/4	13/0	13/8	14/4	15/0	15/8	16/4	17/0	17/8	18/4	19/0	"
7-16th .....	..	..	..	..	12/8	13/8	14/6	15/4	16/0	16/8	17/4	18/0	18/8	19/4	20/0	20/8	21/4	"

SPECIALITIES.

Special Prices will be quoted for the following on application.

Railway Fish Plates, Sole Plates, Fish Bolts, Fang Bolts, and Spikes of all descriptions.

Carriage and Wagon Ironwork, Smiths' Work, and Forgings of all kinds.

Engineers' Best Hammered Bolts and Nuts.

Engineers' Bright and Faced Nuts.

Telegraph Spindles, Insulator Bolts, and Ironwork of all descriptions.

Boiler Makers' Cotter Bolts and Steel Cotters.

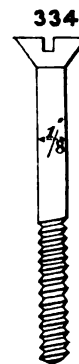
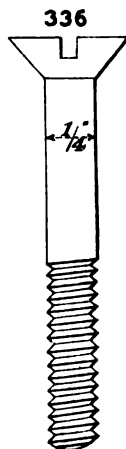
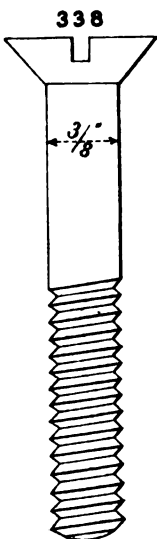
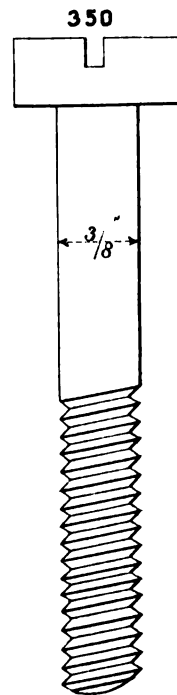
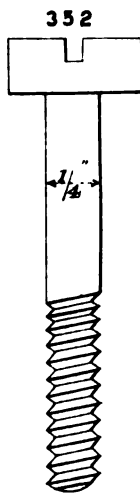
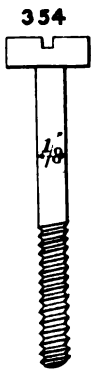
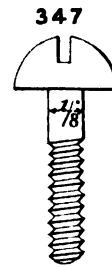
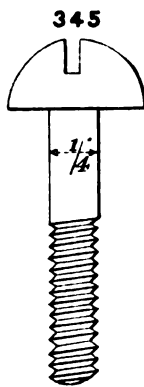
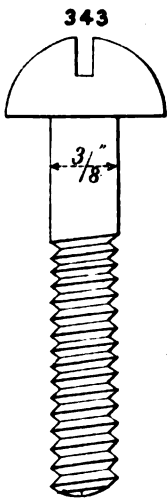
Armour Plate Screws and Bolts.

Eye and Hook Bolts for Fencing, Jagged or Lewis Bolts, Convex or Clench Rings, and Tyre Bolts.

Agricultural Implement Work, viz.:—Cam Bolts, Beater Bolts, Raising Screws, Collar Screws, Hay-making Machine Teeth, Mowing Machine Rivets, &c., &c.

Ship Builders' Bolts and Nuts, viz.:—Deck Bolts, Platers' Bolts, Ribbing Bolts, Deck Screws, Deck Rivets, Spikes, &c., &c.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis-
count.

TIN.

STRAITS.....	per ton.	ENGLISH INGOTS.....	per ton.
BILLITON	"	DITTO BARS	"
BANCA	"	DITTO REFINED	"
AUSTRALIAN		per ton.	

TIN PLATES.

I. C. COKE	per box.	I. C. CHARCOAL	per box.
I. X. COKE	"	I. X. CHARCOAL	"

BRASS.

BOILER TUBES, Seamless, 1½ to 4 in. diameter outside, to 14 W. G.	per lb.
CONDENSER TUBES, Seamless, ¾ to 1½ in. diameter outside, to 19 W. G.	"
CONDENSER PLATES	"
Y. M. SHEATHING AND BOLTS	"
GAS TUBES, BRAZED, above ⅝ in. to 19 W. G.	"
DITTO DITTO ¼ to ⅝ in. to 20 W. G.	"
SHEETS, 24 by 48 in., 8 lbs. and upwards, best quality	"
DITTO ditto ditto second quality	"
STRIPS, Rolled, 2 to 6 in. wide, to 28 W. G.	"
DITTO ditto 12 to 18 in. wide, to 24 W. G.	"
ROLLERS, ordinary sizes	"
CALENDER BOWLS, Gun Metal	"
WIRE, No. 1 to 20	"
INGOTS, No. 1 2 3 quality	"
SOLDER, No. 0 1 2 3 and upwards	"

LEAD.

SOFT ENGLISH PIG	per ton.	RED LEAD	per ton.
DITTO W.B.	"	WHITE LEAD	"
SPANISH	"	PATENT SHOT	"
GREEK LEAD	"	LEAD, Co.	"
SHEET MILLED		per ton.	

ZINC.

SHEETS, Rolled	per ton.	SHEETS, Foreign	per ton.
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SPELTER.

SILESIA, Common	per ton.	ENGLISH	per ton.
RHENISH	"	ENGLISH, Hard	"

QUICKSILVER per bot.

ANTIMONY ORE.

AUSTRALIAN	per ton.	FRENCH STAR	per ton.
SPANISH	"	CRUDE	per cwt.
REGULUS	"	NICKEL	per lb.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.





WROUGHT IRON.


Dis-
count.

BEST IRON PLATES—up to 5 cwt.	per ton.
5 cwt. and up to 6 cwt.	"
6 " " 7 "	"
7 " " 8 "	"
TREBLE BEST REFINED PLATES—Brand for Boilers, &c.	
Up to 3 cwt.	"
3 cwt. and up to 3½ cwt.	"
3½ " " 4 "	"
4 " " 5 "	"
5 " " 6 "	"
6 " " 7 "	"
7 " and above	"
ANGLES—To 8 united inches up to 25 feet long	"
From 8 to 10 inches up to 21 feet long	"
BARS	"
RIVET IRON	"
AXLES	"
TIRES—Solid Weldless	"
FRAME PLATES for Locomotives	"
DITTO cut out and finished according to sketch.	"
SHEET IRON—(Lion) Singles to 20 W.G.	"
DITTO DITTO Doubles, 21 to 24 W. G.	"
HOOP IRON—.....	4 1 1½ 2 2½ 3 in.
	15 19 20 20 20 20 W.G.

per ton—Lion.

.. —Bradley's.

Lord Ward's Bars	At Maker's Works, per ton.
Bagnall's "	"
S.H.  "	"
E.B.  "	"
Good Staffordshire Bars	"
Best " Plates	"
E.B.  Plates	"
Best S.H.  Plates	"
Sheets Shingles to 20 W.G.	"
Builders' Hoops	"

Stock Orders 10 per cent. extra, in E.B.  only.

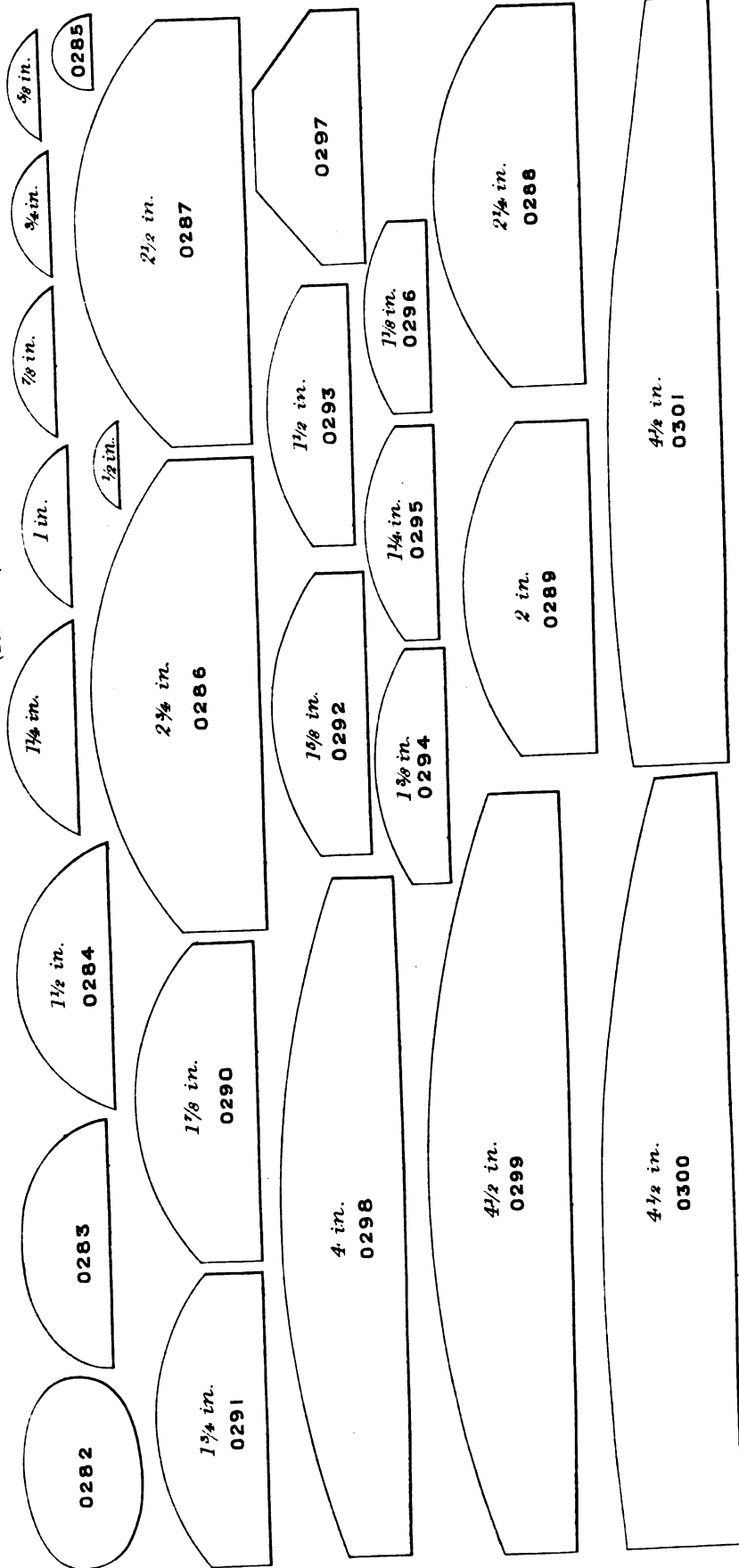
Usual Extras.

Special Quotations for large specifications.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

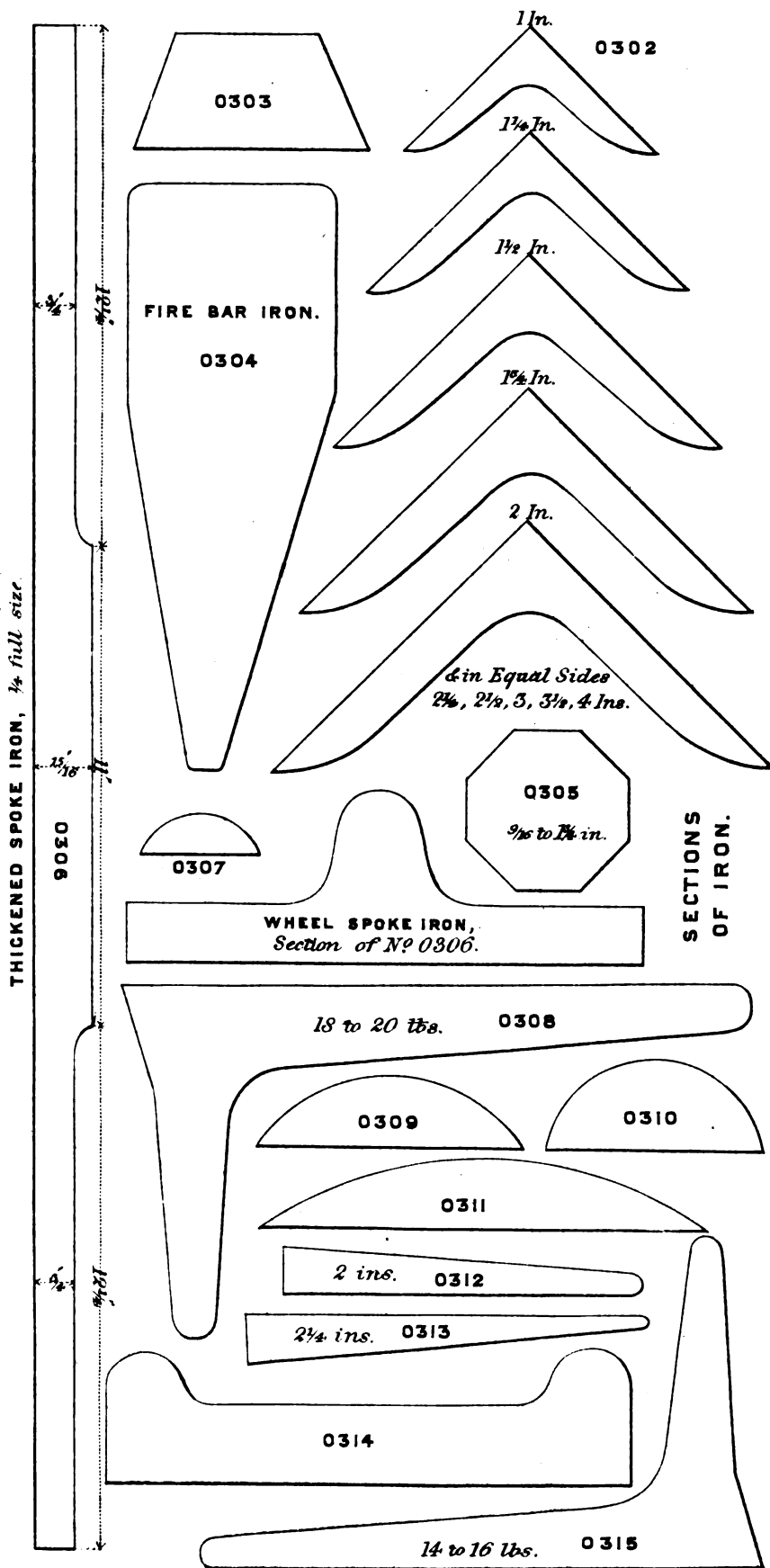
(M.T.C.) SECTIONS OF IRON.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

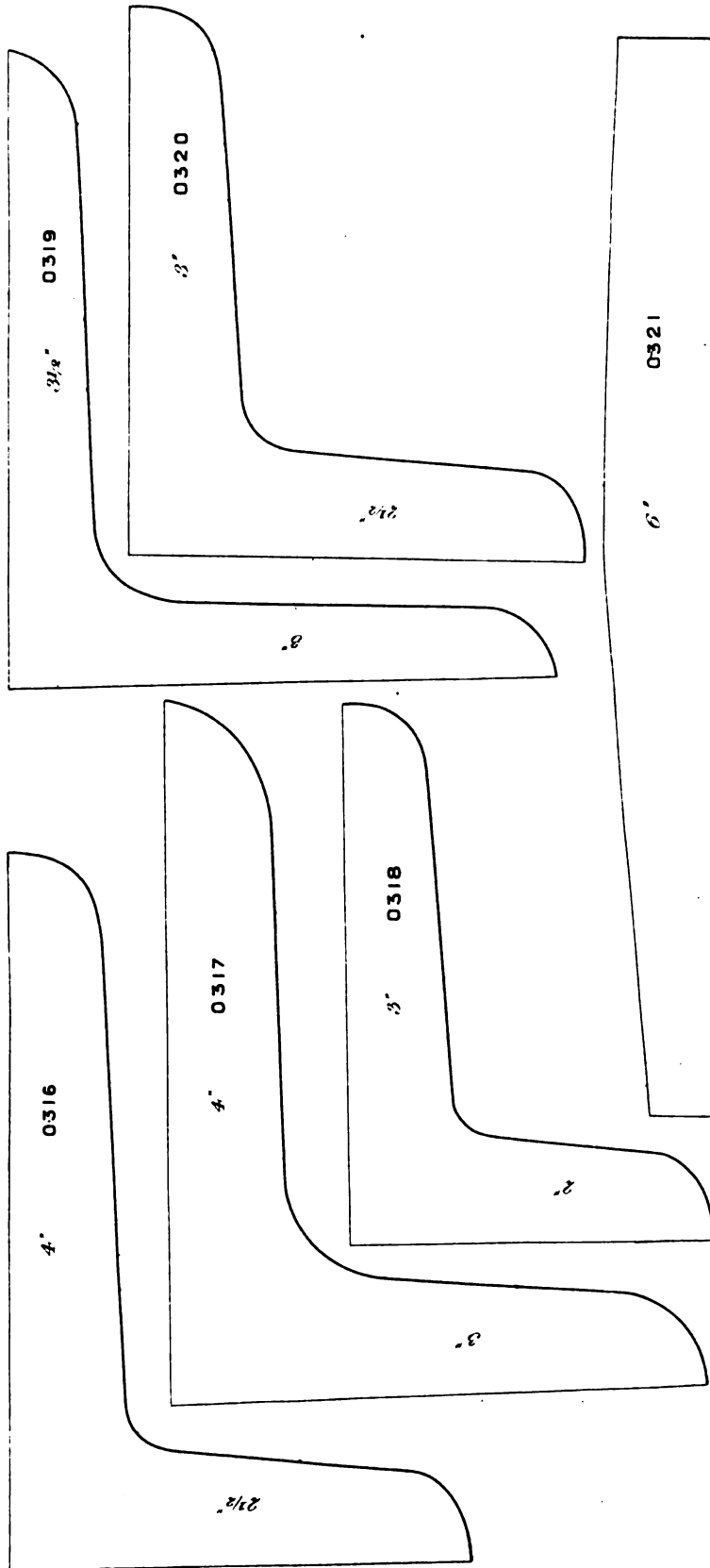
EDWARD BROOKES.

824



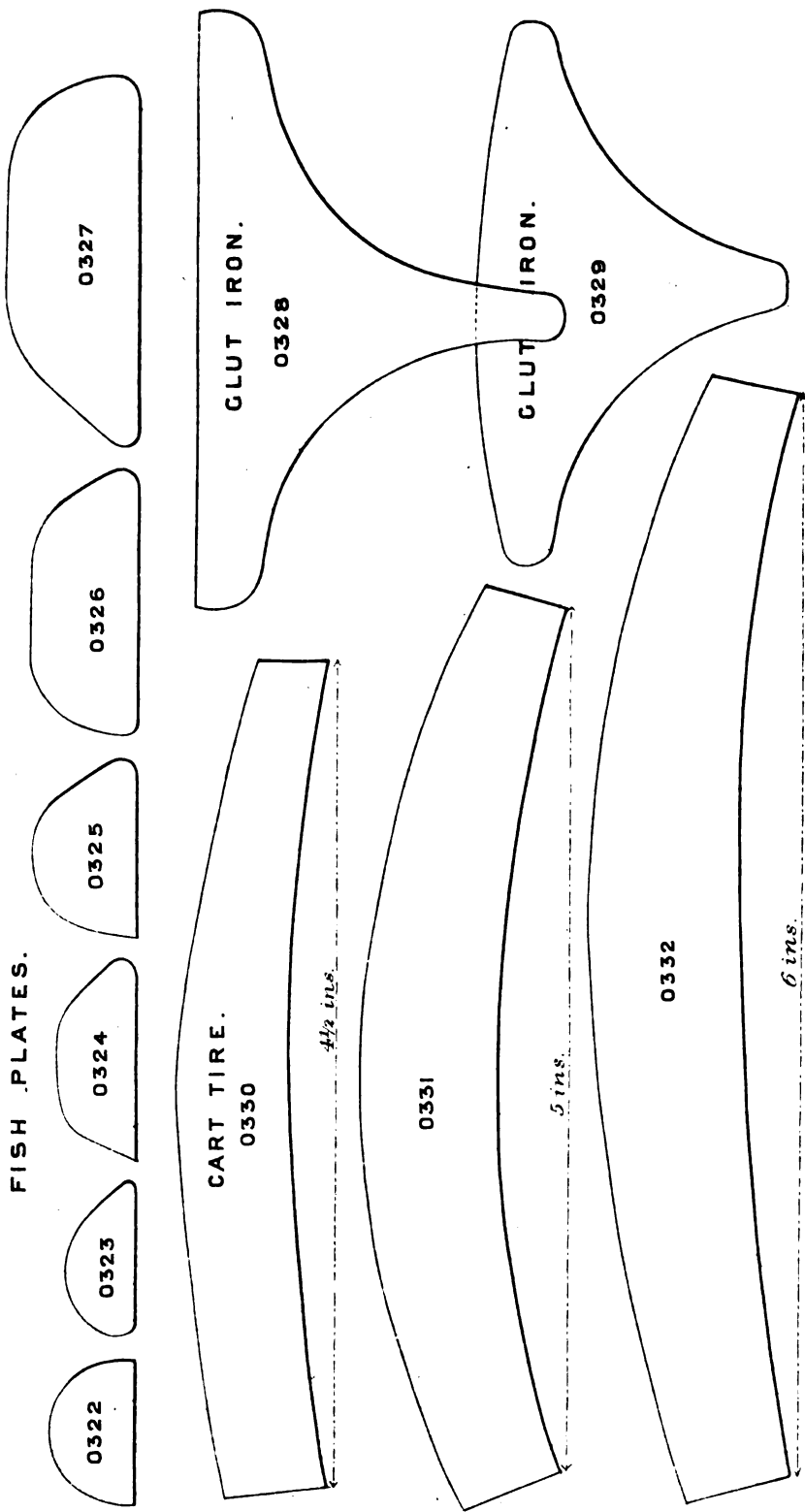
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



ROLLED BARS 3/16 IN. TO 5 INS. DIAMETER.- SQUARE BARS 3/16 IN. TO 4 INS.- FLAT BARS 1/2 IN. TO 9 INS. BROAD.- HOOPS 1/4 IN TO 4 INS WIDE.

EDWARD BROOKES.

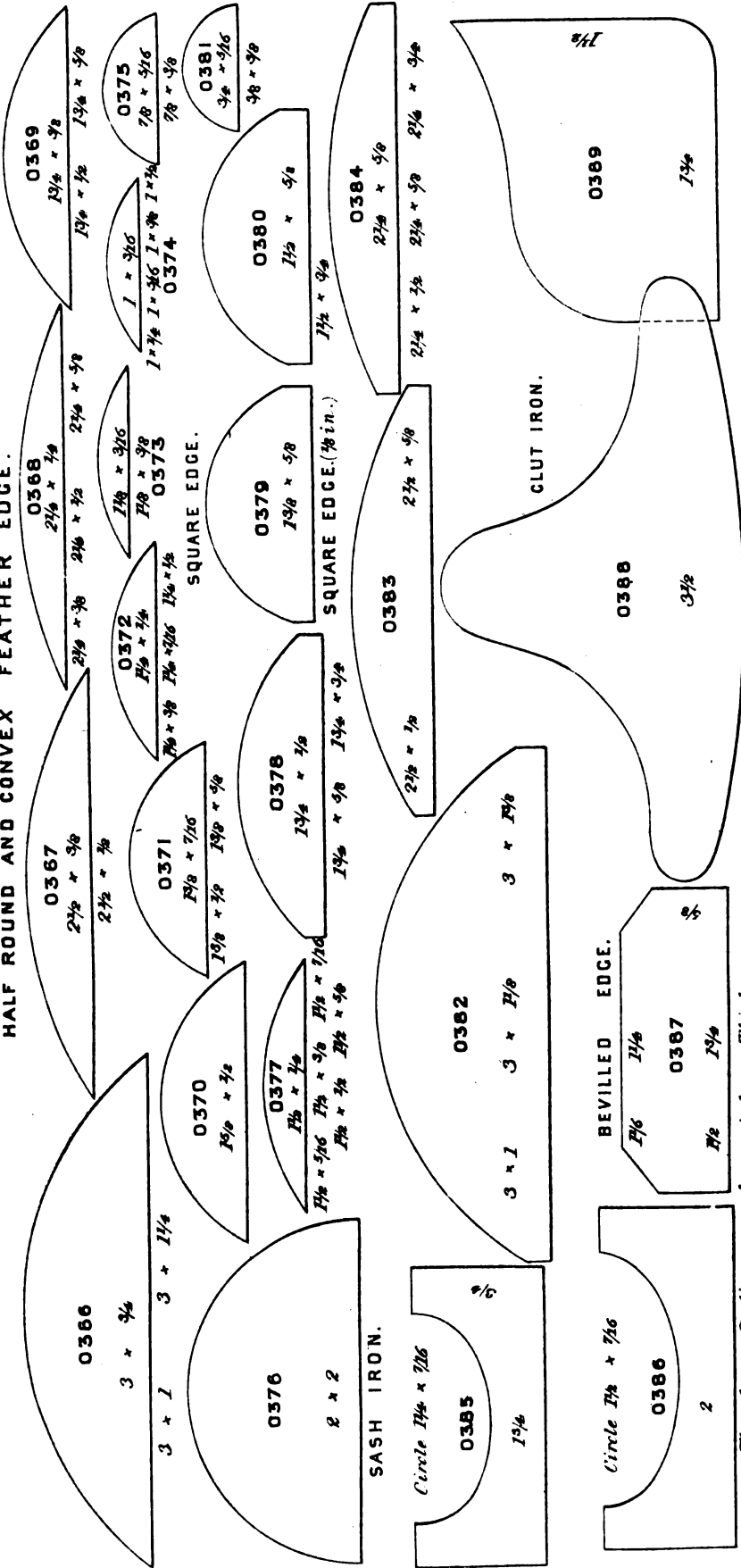


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

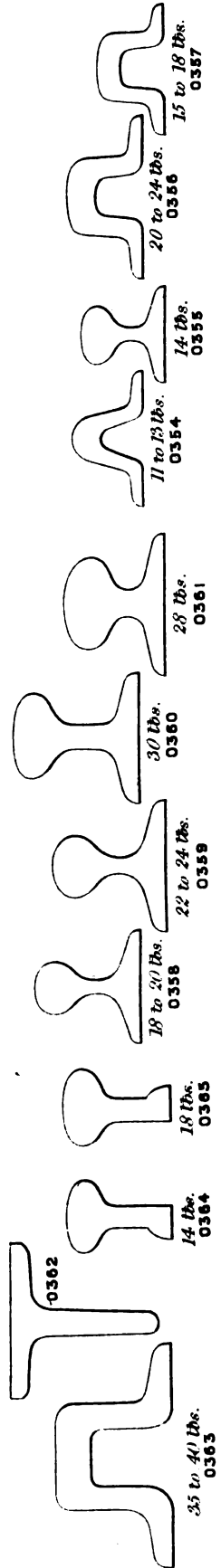


EDWARD BROOKES.

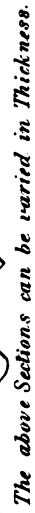
HALF ROUND AND CONVEX FEATHER EDGE.



The above Sections can be varied in Thickness

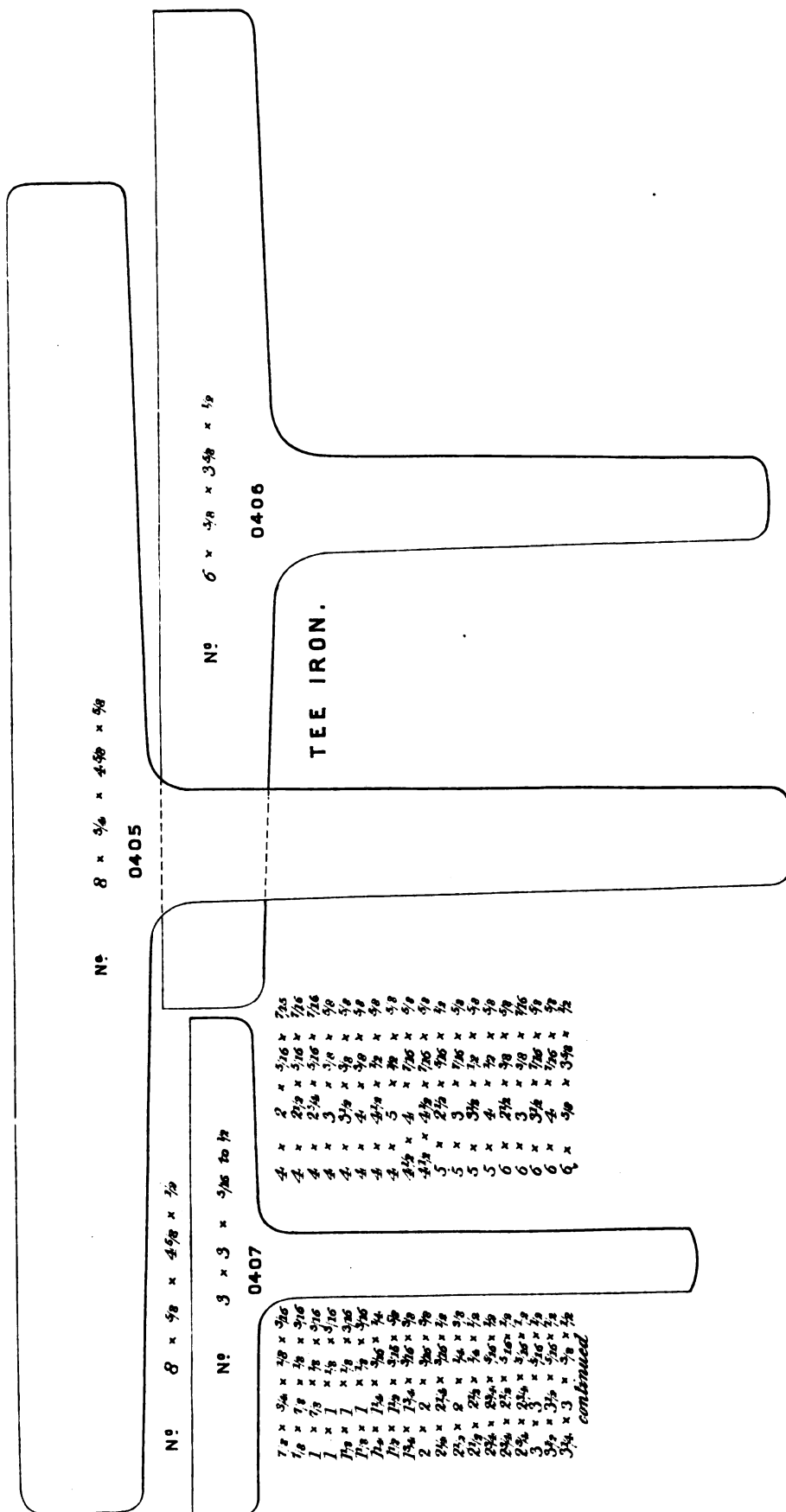


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.



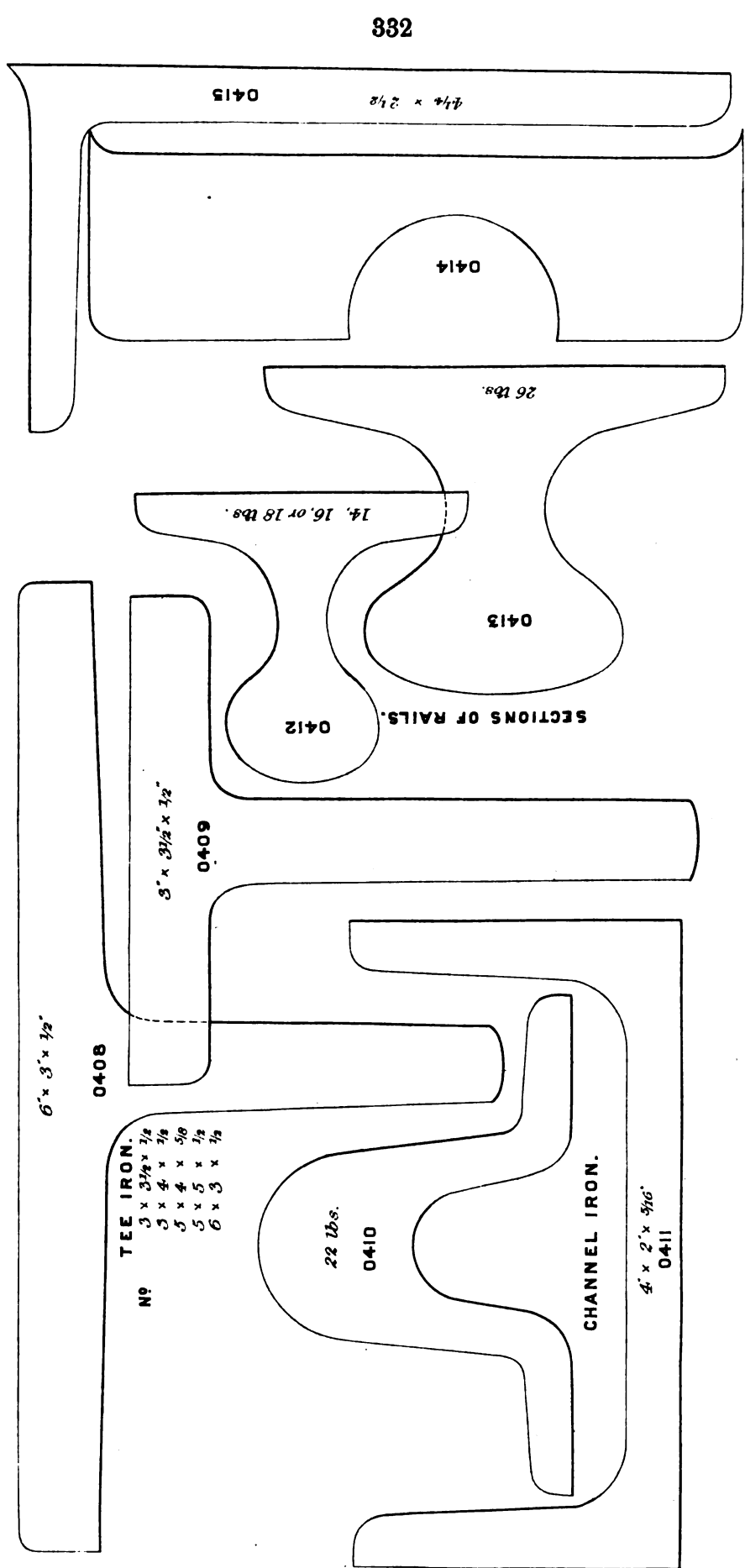
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EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

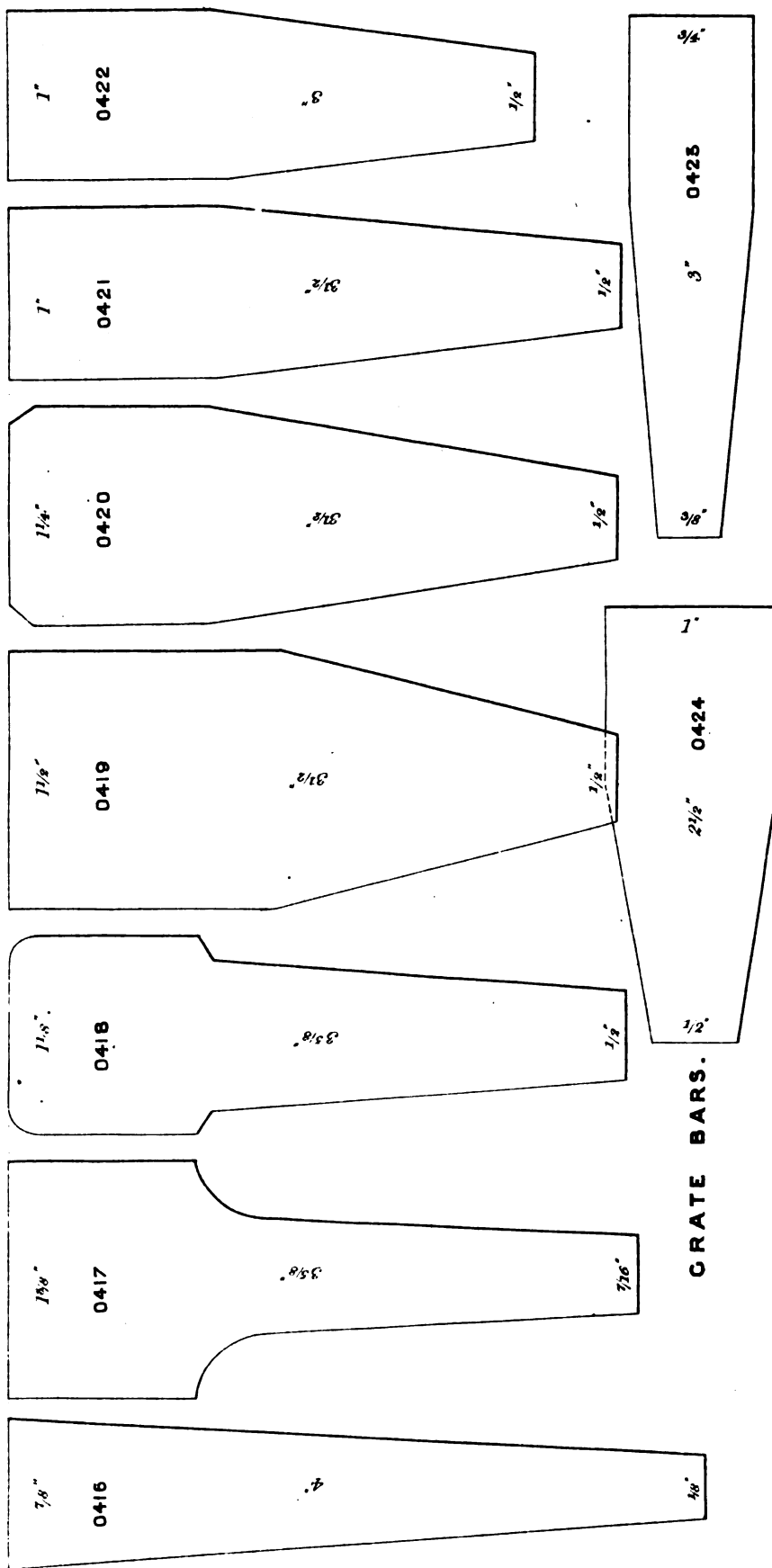
EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

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GRATE BARS.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

CORNISH STEAM BOILERS.

These Boilers are made of the best Staffordshire Plates; Best Best Plates being used where necessary. Every boiler is properly tested before leaving the works, to a pressure of 100 lbs. per square inch.

By employing the most approved machinery and tools, and admitting none but the best workmanship, I am enabled to supply Boilers which will work with greater safety than has before been secured.

SIZES AND PRICES OF CORNISH BOILERS WITH ONE FLUE.

Size.	Horse Power.	Length.	Diameter		Diameter of Flue.	Diameter of Dome.	Height of Dome.	Approximate Weight.	Price of Boiler, with Furnace and Steam Fittings, at Works.
		ft.	ft.	in.	in.	in.	in.	tons. cwt.	£
AC	3	9	3	0	20	16	22	1 10	52
AD	4	10	3	3	21	18	24	1 15	62
AE	6	12	3	8	24	20	26	2 10	80
AG	8	14	4	0	26	22	28	3 0	105
AH	10	16	4	3	28	23	30	3 16	115
AI	12	17	4	6	29	24	32	4 4	130
AJ	14	19	4	8	31	26	33	5 0	145
AK	16	21	4	10	32	27	35	5 18	165
AM	20	24	5	1	34	28	36	7 12	200

The Furnace and Steam Fittings comprise furnace front and door, furnace bars, bearers and dead plate, damper and frame, safety valve, glass water gauge and cocks, two trial cocks, blow-off cock, back pressure valve, fusible plug, and dial steam pressure gauge.

Any of the above boilers can be fitted, if required, with Galloway Tubes, at an extra cost of £8 per Tube.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

LANCASHIRE STEAM BOILERS.

These Boilers are made of the Best Staffordshire Plates, Best Best Iron being used where necessary. Every Boiler is properly tested before it leaves the works, to a pressure of 100 lbs. per square inch. By employing the most approved machinery and tools, and admitting none but the best workmanship, I am enabled to supply Boilers that will work with greater safety than has before been secured.

SIZES AND PRICES OF LANCASHIRE BOILERS, WITH TWO TUBES.

Size.	Horse Power.	Length.	Diameter.	Diameter of Tube.	Diameter of Dome.	Height of Dome.	Approximate Weight.	Price of Boiler with Furnace and Steam Fittings.
		ft.	ft. in.	in.	in.	in.	tons. cwts.	£
AO	20	22	6 0	27	33	43	8 10	235
AP	25	25	6 3	28½	34	45	10 0	260
AS	30	28	6 6	30	35	47	11 10	320
AT	35	31	6 9	31½	36	49	14 10	400
AW	40	34	7 0	33	37	51	16 5	455

The Furnace and Steam Fittings comprise furnace front and doors, furnace bars, bearers and dead plate, damper and frame, safety valve, two glass water gauges and cocks, two trial cocks, blow-off cock, back pressure valve, fusible plug and dial steam pressure gauge, two manholes with cast iron mouth pieces.

Any of the above Boilers can be fitted, if required, with Galloway Tubes, at an extra cost of £3 per Tube.

VERTICAL STEAM BOILERS WITH CROSS TUBES.

These Boilers are made of the Best Best Staffordshire Plates, and are fitted with Treble Best Iron Cross Tubes, which afford increased heating surface without the risk and annoyance of choking up from sediment and incrustation, so common with Multitubular Boilers generally.

The Boilers are complete, with chimney, fire door, fire bars and bearers, damper and frame, mud and and manhole covers, and bridge pieces; also steam dome, safety valve, glass water gauge and cocks, two trial cocks, blow-off cock, back pressure valve, and dial steam pressure gauge.

SIZES AND PRICES.

Size.	Height.	Diameter.	No. of Cross Tubes.	Approximate Weight, complete, with Fittings.	Price, including Fittings.
	ft. in.	ft. in.		cwt. qrs. lbs.	£
BB	4 6	2 0	One	9 1 0	25
BC	5 8	2 6	„	13 3 0	40
BD	6 6	2 10	Two	18 0 16	50
BE	7 2	3 2	„	22 1 12	60
BG	8 2	3 8	„	33 3 0	80
BH	9 0	4 0	Three	45 2 16	100
BJ	9 8	4 4	„	53 1 15	120
BK	10 2	4 7	„	62 0 0	140

Larger sizes are supplied if required; also Multitubular Boilers of the above or any other size.

Each Boiler is carefully tested before leaving the works with hydraulic pressure up to 100 lbs. per square inch.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

The Prices in this List are for "STANDARD SIZES" only, and if other dimensions are ordered, the cost will be rather more per horse-power, and delivery cannot be made so promptly. The Prices are subject to future alteration.

CORNISH BOILERS, "Standard Sizes." (Prices include Low Moor Plate over fire, manhole, mudhole, and furnace doors. Last three sizes have two Tubes.)

Horse Power	10	12	14	16	20	30	40
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
Diameter	4 6	4 8	4 9	4 9	5 6	6 0	6 6
Length	14 0	15 0	16 0	17 6	19 0	26 0	29 0
Diameter of Tube	2 2	2 4	2 4	2 6	1 9	2 0	2 9

PRICE £

VERTICAL BOILERS, with Cross Tubes, "Standard Sizes." (Prices include Low Moor fire box, manhole, mudhole, and fire doors.)

Horse Power	1	2	3	4	6	8	10
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
Diameter	1 9	2 6	2 6	2 9	3 0	3 6	3 6
Length	3 0	4 0	5 6	6 0	6 0	6 6	8 0
No. of Tubes	0	1	2	2	2	3	3

PRICE £

PORTABLE BOILERS, "Standard Sizes." (Prices include Low Moor fire boxes, with manhole and fire doors.)

Horse Power	2	4	6	8	10	12
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
Size across Front	2 2	2 7	2 11	3 1	3 8	3 7
Width of Fire Box	1 9	1 11	2 0	2 4	2 6	2 6
Height of Fire Box	3 0	3 7	4 0	4 3	4 6	4 8
Length of Barrel	3 9	4 6	5 8	6 0	6 6	6 9
Diameter of Barrel	1 9	2 2	2 6	2 8	2 9	3 0
No. of 2½ in. Tubes	12	18	24	28	32	40

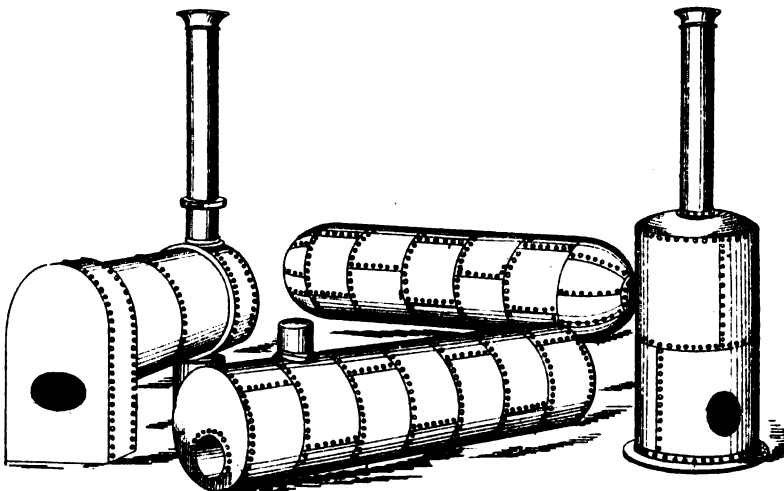
PRICE £

VERTICAL TUBULAR BOILERS, "Standard Sizes." (Prices include Low Moor fire boxes, with manhole, mudhole, and fire doors.)

Horse Power	2	4	6	8	10	12	14
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
Diameter	2 6	2 9	3 3	3 3	3 6	3 6	3 9
Height	5 0	6 0	6 9	7 6	8 3	9 0	9 9
No. of 2½ in. Tubes	20	25	35	45	50	55	60

PRICE £

The Workmanship of all these boilers is of the best description, and they are Tested by Hydraulic Pressure before leaving the works.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

REVISED PRICE LIST OF BOILER TUBES, STAYS, AND NUTS,

Agreed in December, 1871, to be issued by the Trade on 1st January, 1872.

(ALL PREVIOUS LISTS CANCELLED.)

Gross Price per foot of Lap-welded Iron Boiler Tubes.

External diameter, in inches	1½	1½	1½	1½	2	2½	2½	2½	2½	3	3½	3½	4	4½	4½
Usual B.W. Gauge	14	13	13	13	12	12	12	11	11	11	10	10	9	9	9
Price per foot of usual B.W. Gauge	9½d.	9½d.	10d.	10½d.	11d.	11½d.	1/0	1/1	1/1½	1/3	1/4½	1/8	1/9½	1/11	2/4
Ditto 1 extra Gauge thicker	10½d.	11½d.	11½d.	1/0	1/0½	1/0½	1/1½	1/2½	1/3	1/4½	1/6½	1/10	2/0	2/1½	2/7
Ditto 2 ditto ditto	1/0	1/0½	1/0½	1/1	1/1½	1/2	1/2½	1/3½	1/4½	1/6	1/8	2/0	2/2½	2/4	2/10
Ditto 3 ditto ditto	1/1½	1/1½	1/1½	1/2½	1/3½	1/3½	1/4	1/5½	1/6½	1/8½	1/10½	2/2½	2/4½	2/6½	3/2
Ditto 3-16th inch thick	1/5½	1/6½	1/5½	1/6	1/6½	1/6½	1/6½	1/7	1/8	1/10	2/0½	2/2½	2/4½	2/6½	3/1½
External diameter, in inches	4½	5	5½	5½	5½	6	6½	6½	6½	7	7½	8	8½	9	9½
Usual B.W. Gauge	8	8	8	7	7	7	7	7	7	7	5	4	9-32	9-32	5-16
Price per foot of usual B.W. Gauge	3/3	3/3	4/0	4/7	5/0	5/3	5/9	6/6	6/9	7/0	9/4	10/9	13/4	14/9	17/0
Ditto 1 extra Gauge thicker	3/6	4/0	4/4	5/2	5/7	5/11	6/6	7/4	7/7	8/0	10/0	The discount quoted for "1½ to 7½" inclusive, does not apply to the above large sizes. Special Quotations given.			
Ditto 2 ditto ditto	4/0	4/6	4/11	5/7	6/1	6/6	7/0	7/11	8/2	8/9	11/0				
Ditto 3 ditto ditto	4/4	4/10	5/4	6/0	6/7	7/0	7/7	8/7	8/10	9/6	11/9				
Ditto 3-16th ditto ditto	3/6	4/0	4/4	4/7	5/0	5/3	5/9	6/6	6/9	7/0	9/4				

Gross Prices, per foot, for Iron Tubular Screwed Stays, inclusive of Eleven inches of Screwing.

External Diameter, in inches	2	2½	2½	2½	2½	2½	3	3½	3½	3½	4	4½	4½	4½	5
½ thick	2/2	2/3	2/4	2/5	2/7	2/9	3/1	3/4	3/7	3/11	4/4	4/9	5/0	5/4	6/0
5-16th thick	2/6	2/7½	2/9	2/10	2/11	2/3	3/8	4/0	4/4	4/8	5/2	5/8	6/1	6/7	7/2
¾ thick	3/4	3/7	3/10	4/2	4/7	5/0	5/6	6/0	6/6	7/0	7/7	8/7	9/4	10/4	11/4

Gross Prices, per foot, for Iron Tubular Stays, not Screwed.

External Diameter, in inches	2	2½	2½	2½	2½	2½	3	3½	3½	3½	4	4½	4½	4½	5
½ thick	2/0	2/1	2/2	2/3	2/5	2/7	2/10	3/1	3/4	3/8	4/0	4/5	4/8	5/0	5/8
5-16th thick	2/4	2/5½	2/7	2/8	2/9	3/1	3/5	3/9	4/1	4/5	4/10	5/4	5/9	6/3	6/10
¾ thick	3/2	3/5	3/8	4/0	4/5	4/10	5/3	5/9	6/3	6/9	7/3	8/3	9/0	10/0	11/0

Tubes of intermediate diameter to be charged at the same price as the next larger size.

Maximum length, 16 feet. Lengths in excess of maximum lengths at special prices.

All orders, where Gauge is not specified, will be executed according to the usual Gauge on this List.

No extra charge for Tubes swelled 1-16th inch at one end and 3 inches up. Extra swelling to be charged 12/0 per 100 ends gross per 1-16th and 3 inches long, up to 4 inches diameter. Tubes of larger diameter at special prices.

Gross Prices of Stay Backnuts and Screwing Stays beyond Eleven inches of Screw.

External Diameter, in inches	2	2½	2½	2½	2½	2½	3	3½	3½	3½	4	4½	4½	4½	5
Screwed Nuts, each	1/0	1/0	1/2	1/3	1/5	1/6	1/10	2/3	2/8	3/0	3/5	3/9	4/2	4/8	5/3
Screwing Stays, per lineal inch	1½d.	1½d.	2d.	2d.	2½d.	2½d.	3d.	3d.	3½d.	3½d.	4d.	4d.	5d.	5d.	5d.

Stays of intermediate thickness to be charged at the next thickest size.

Orders amounting to £2 net delivered free in London, Bristol, Hull, or Liverpool.

Gross List of Patent Lap-welded, Screwed, and Socketed Steel Tubes.

Internal Diameter, in inches	1	1½	1½	1½	2	2½	2½	2½	3	3½	3½	3½	4	4½	4½	5	5½	5½	5½	6
Birmingham W.G.	9	9	9	9	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5
Price per foot	8d.	1/0	1/4	1/7	1/10	2/2	2/6	2/9	3/0	3/4	3/6	3/10	4/1	4/7	5/0	5/4	5/9	6/2	6/6	6/11

All the above made to Standard Sizes, outside diameter.

Extra strong ditto made to order.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

HOMOGENEOUS METAL AND STEEL TUBES.

Price List per foot, in lengths not exceeding 14 feet.

External diam. in inches	1	1½	1¾	1¾	1¾	1¾	1¾	1¾	2	2½	2½	2½	2½	2½	2½	2½
No. 17, Birmingham W.G. ...	9d.	10d.	11d.	1/0	1/0	1/1	1/3	1/4	1/6	..	..	..	..	..	..	..
.. 16 ditto	10d.	11d.	1/0	1/1	1/2	1/3	1/4	1/5	1/7	1/8	1/9	1/11	2/1	2/2	2/4	2/7
.. 15 ditto	11d.	1/0	1/1	1/2	1/3	1/4	1/5	1/7	1/8	1/9	1/11	2/1	2/2	2/4	2/6	2/8
.. 14 ditto	1/0	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/10	2/0	2/1	2/2	2/4	2/6	2/8
.. 13 ditto .....	..	..	..	..	..	..	..	1/8	1/10	2/0	2/3	2/4	2/6	2/7	2/9	2/10
.. 12 ditto .....	..	..	..	..	..	..	..	..	2/4	2/7	2/10	3/0	8/1	3/3	3/5	3/6
.. 11 ditto .....	..	..	..	..	..	..	..	..	..	..	..	..	8/0	3/2	3/4	3/10
External diam. in ins.	8	3½	3½	3½	3½	4	4½	4½	4½	5	5½	5½	6	6½	6½	7
No. 14, Brmngm. W.G. 2/11	3/2	3/5	3/8	3/10	4/0	..	..	..	..	..	..	..	..	..	..	..
.. 13 ditto	3/2	3/5	3/9	4/0	4/3	5/0	5/4	5/8	6/0	6/3	..	..	..	..	..	..
.. 12 ditto	3/9	4/0	4/4	4/7	4/10	5/0	5/4	5/9	6/0	6/3	6/7	7/1	7/7	..	..	..
.. 11 ditto	4/1	4/4	4/9	5/1	5/4	5/6	5/10	6/3	6/7	6/10	7/3	7/8	8/0	8/10	9/5	..
.. 10 ditto	4/4	4/9	5/3	5/10	6/2	6/4	6/10	7/3	7/7	8/0	8/5	8/10	9/2	9/9	10/0	10/9
.. 9 ditto	..	..	..	..	6/10	7/3	7/7	8/0	8/9	9/6	10/1	10/7	11/0	11/5	12/0	12/5
.. 8 ditto	..	..	..	..	..	..	..	..	9/4	10/0	10/7	11/1	11/7	12/0	12/7	13/1
.. 7 ditto	..	..	..	..	..	..	..	..	..	..	..	11/8	12/3	13/2	14/2	14/9

New List of Patent Boiler Tube Ferrules.

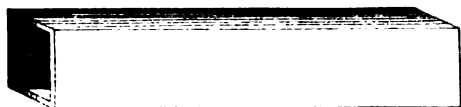


Largest external diameter in inches	1½	1½	1½	1½	2	2½	2½	2½	2½	2½	2½	3	3½	3½	3½	3½	3½	4
Thickness, Birmingham W.G.	12	12	12	12	11	11	11	11	11	10	10	10	9	9	9	9	8	8
IRON, per 1000	a.100/	100/	105/	110/	120/	130/	140/	150/	160/	170/	180/	190/	205/	220/	235/	250/	265/	280/
Stronger Gauges at per cwt.	135/	135/	135/	145/	155/	170/	180/	190/	200/	210/	225/	240/	255/	275/	295/	310/	330/	345/
STEEL, per 1000	a.135/	135/	135/	145/	155/	170/	180/	190/	200/	210/	225/	240/	255/	275/	295/	310/	330/	345/
Stronger Gauges at per cwt.	135/	135/	135/	145/	155/	170/	180/	190/	200/	210/	225/	240/	255/	275/	295/	310/	330/	345/

Prices will be given for all other descriptions of Steel and Iron Ferrules upon application.

All kinds of Wrought Iron Tubes, Gas Tubes and Fittings, Black Water Tubes and Fittings, Galvanized Tubes and Fittings, Butt-welded Steel Tubes and Fittings, Hand Rail Tubes, Hydraulic Tubes, Tubular Bars, Boring Tubes, Well-bore Pipes, Core Bars, Ships' Pillars, Coils, &c., &c. For Gas and Butt-welded Steam Tubes see separate List.

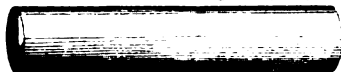
SQUARE TUBE.



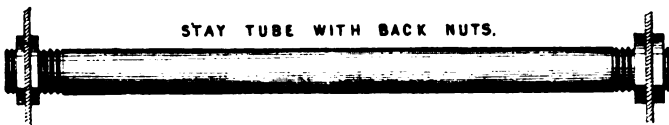
OVAL TUBE.



SOLID BOTTOM BOILER TUBE FOR STEAM GENERATORS.



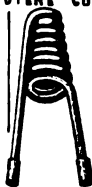
STAY TUBE WITH BACK NUTS.



TUYERE COIL.

ORDINARY BOILER TUBE.

TUYERE COIL.



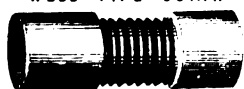
BOILER TUBE BULGED ONE END.



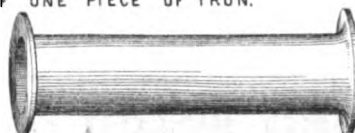
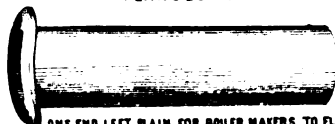
BOILER TUBE REDUCED ONE END.



WELL PIPE JOINT.



FLANGED PIPES MADE OF ONE PIECE OF IRON.



ONE END LEFT PLAIN FOR BOILER MAKERS TO FLANGE.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

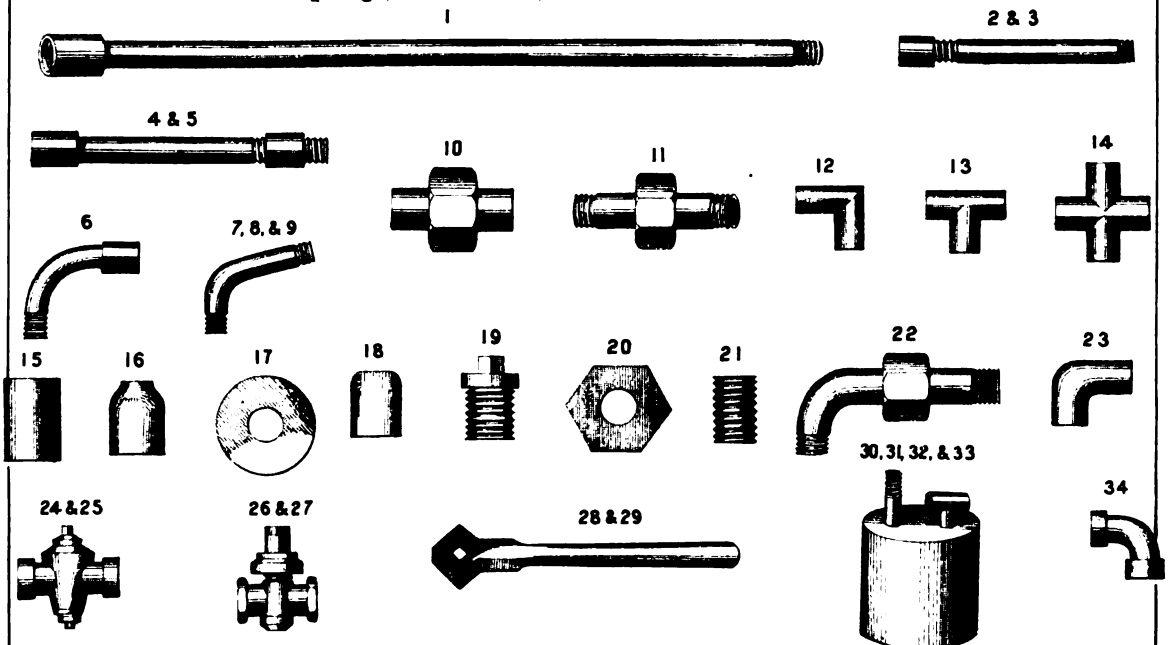
EDWARD BROOKES.

PRICE LIST OF WROUGHT IRON GAS, STEAM, AND WATER TUBES AND FITTINGS,

As Revised by the Trade. Previous Lists Cancelled.

Dis- count.	No.	TUBES.															
		Internal Diameter .. in.															
	1	2d.	2½d.	3d.	4½d.	6d.	8d.	11d.	1½	1¾	2	2½	2¾	3	3½	4	
	2	4d.	5d.	7d.	9d.	10d.	14	18	20	26	30	40	60	70	80	100	140
	3	2d.	3d.	4d.	6d.	8d.	11d.	1½	1¾	20	2½	40	49	60	70	80	90
	4	5d.	7d.	9d.	11d.	12	16	20	26	33	40	56	70	86	100	126	156
	5	4d.	5d.	6d.	8d.	10d.	1½	18	20	26	30	46	56	66	76	86	100
	6	5½d.	6½d.	7d.	8d.	11d.	1½	19	23	33	43	60	100	120	160	250	326
	7, 8, 9,	4d.	5d.	6d.	7d.	9d.	11d.	1½	18	26	33	56	76	100	120	190	260
		Springs, not Socketed															
Dis- count.	No.	FITTINGS.															
		Internal Diameter .. in.															
	10, 11,	20	2½	30	40	50	60	80	90	100	120	140	160	180	220	280	
	12	6d.	6½d.	7d.	8d.	10d.	12	19	23	30	36	56	66	110	140	220	280
	13	6d.	6½d.	7d.	8d.	10d.	12	19	26	30	39	60	90	126	166	240	300
	14	10d.	10	10	15	19	23	30	36	46	53	100	160	210	300	420	500
	15	1½d.	1½d.	2d.	3d.	3½d.	4d.	6d.	7d.	9d.	10	16	26	30	36	50	60
	16	3d.	4d.	5d.	6d.	7d.	9d.	11d.	11	13	20	30	40	50	70	90	
	17	8d.	9d.	10d.	10	12	14	16	19	20	26	39	50	69	86	100	116
	18, 19,	2d.	3d.	3d.	4d.	5d.	6d.	8d.	10d.	10	13	20	26	36	49	70	100
	20, 21,	1d.	2d.	2d.	3d.	3½d.	4d.	6d.	8d.	10d.	10	19	23	30	36	46	56
	22	2½	30	30	30	50	60	80	100	116	130	160	190	220	260	300	360
	23	7d.	7d.	8d.	9d.	10	14	11	26	34	37	60	100	130	160	250	320
	24	2½	2½	2½	30	46	66	86	110	140	180	270	360	440	600	750	900
	25	4/8	5/8	5/8	7/8	10/8	15/8	19/8	25/8	32/8	47/8	60/8	90/8	110/8	140/8	190/8	
	26	3/8	4/8	5/8	7/8	10/8	13/8	17/8	22/8	28/8	38/8	54/8	62/8	70/8	100/8	160/8	
	27	5/8	6/8	9/8	13/8	19/8	28/8	36/8	42/8	60/8	85/8	105/8	120/8	130/8	230/8		
	28	1/8	1/8	1/8	1/8	2/8	2/8	3/8	3/8	4/8	4/8	6/8	7/8	9/8	12/8	14/8	
	29	7d.	8d.	10d.	10d.	12	14	16	22	29	33	49	60	7/6	9/8	12/8	14/8
	30	11/8	12/8	13/8	14/8	15/8	15/8	16/8	18/8								
	31	16/8	17/8	18/8	19/8	21/8	23/8	25/8	30/8	35/8	40/8	45/8	50/8	56/8	60/8		
	32	20/8	22/8	24/8	26/8	26/8	28/8	32/8	35/8	40/8	45/8	50/8	56/8	60/8			
	33	21/8	23/8	25/8	27/8	29/8	31/8	34/8	38/8	42/8	47/8	54/8	60/8				
	34	6d.	6½d.	7d.	8d.	10d.	12	19	23	30	36	56	90	120	150	300	400

Springs, if Socketed, Sockets to be added at List Prices.

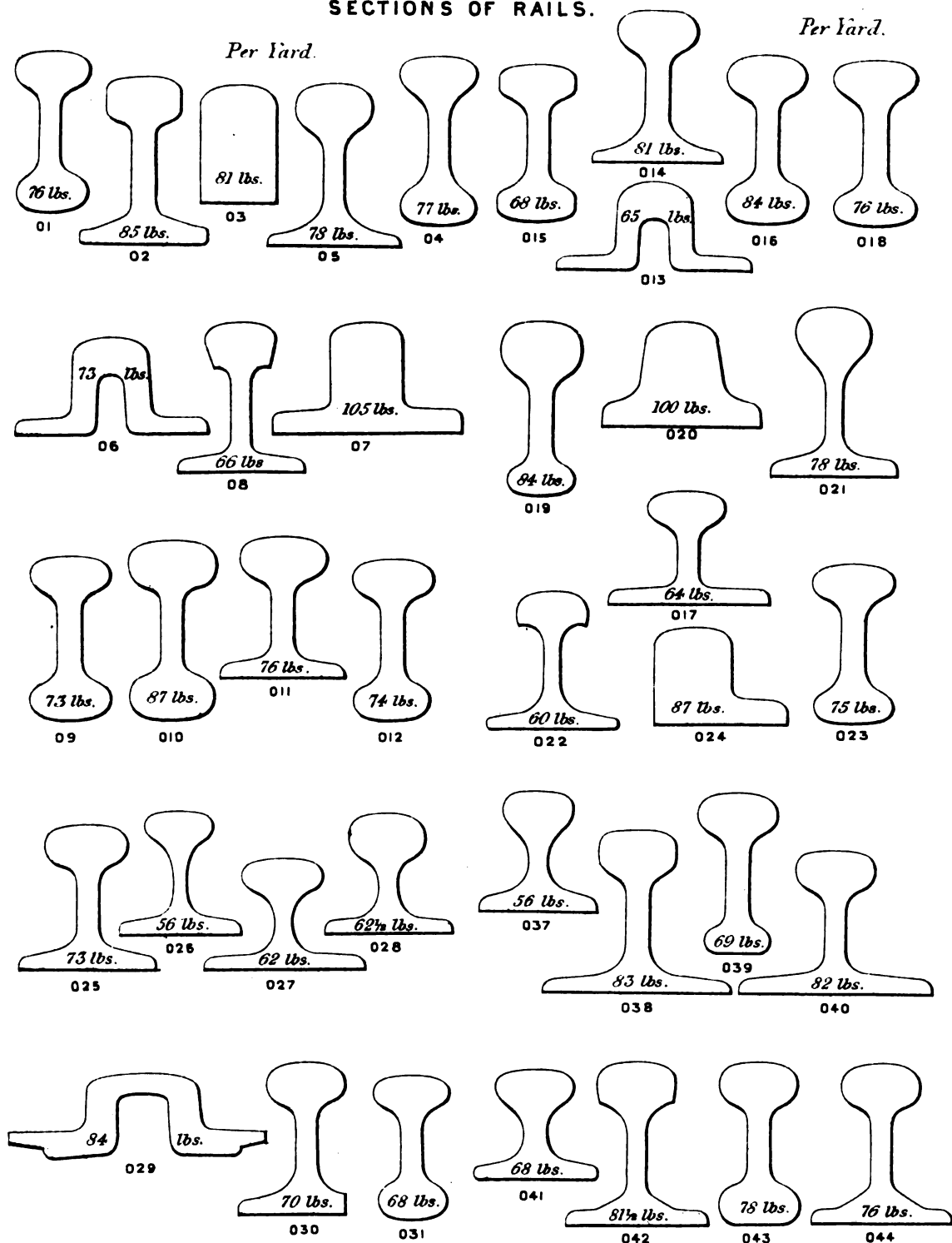


The numbers above and those corresponding on Price List indicate the name & prices of each Article.

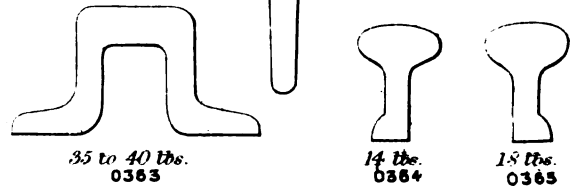
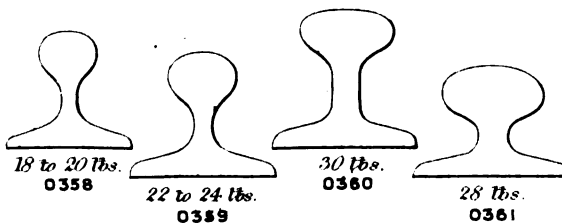
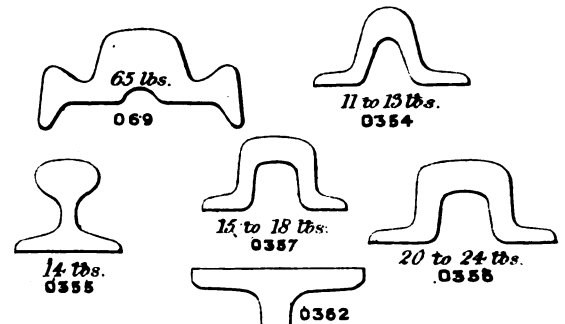
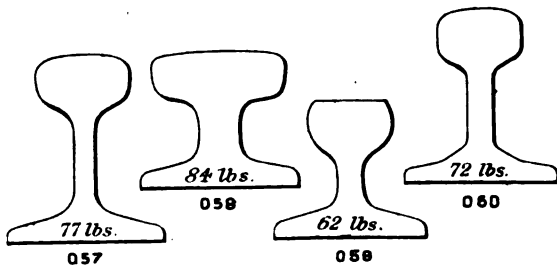
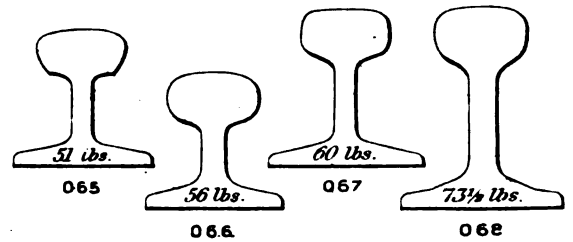
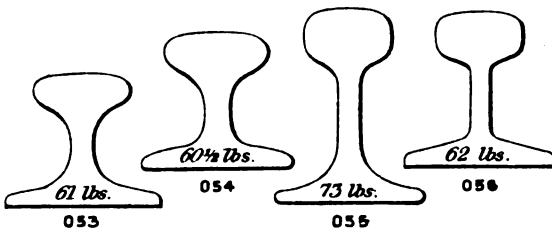
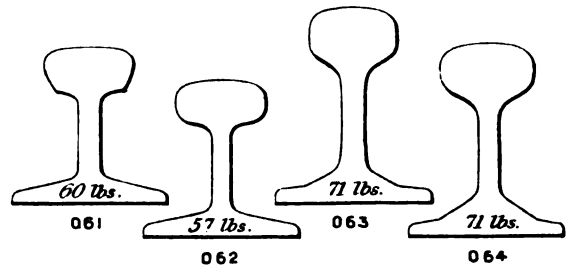
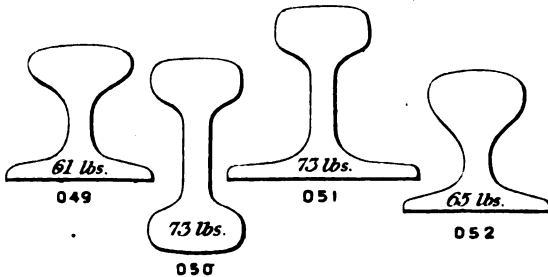
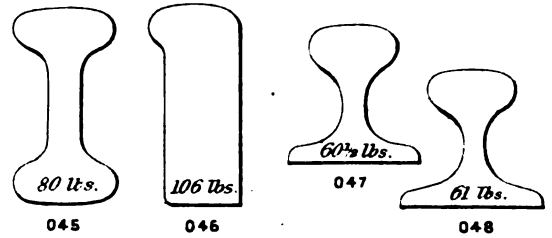
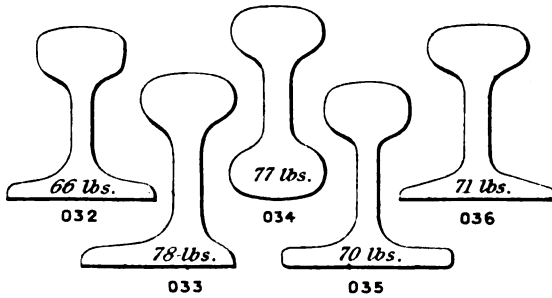
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

SECTIONS OF RAILS.

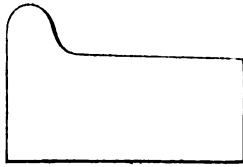


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

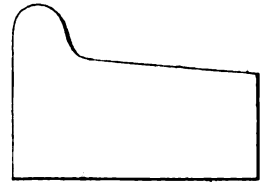
EDWARD BROOKES.**SECTIONS OF RAILS.***Per Yard.**Per Yard.***ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.**

EDWARD BROOKES.**SECTIONS OF TIRES.**

090



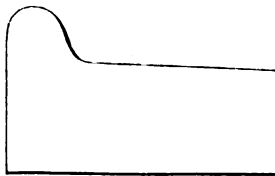
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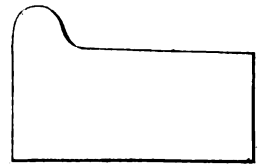
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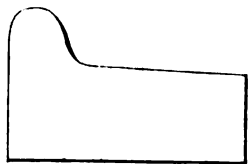
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094



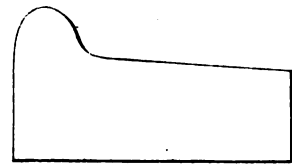
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096



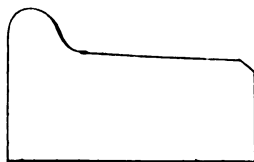
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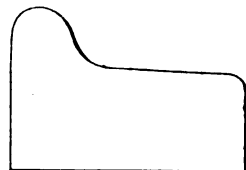
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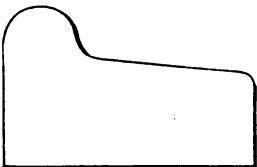
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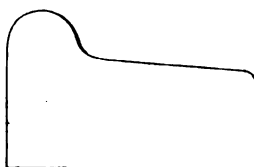
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0101



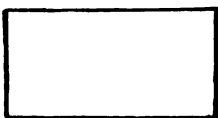
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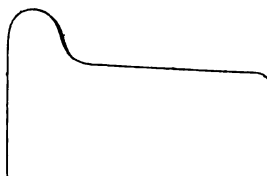
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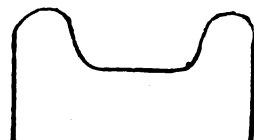
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0104 A

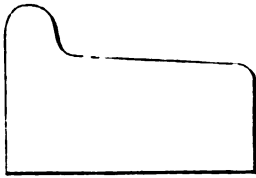


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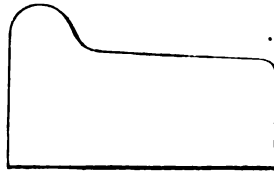


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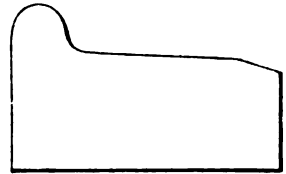
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.**SECTIONS OF TIRES.**

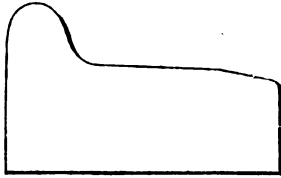
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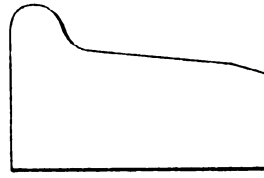
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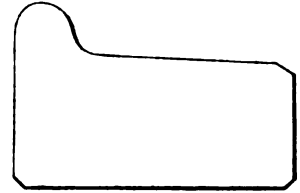
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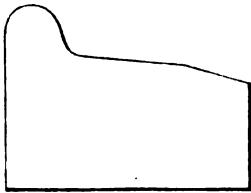
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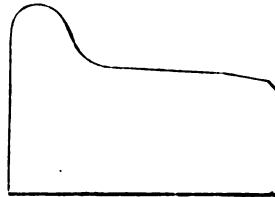
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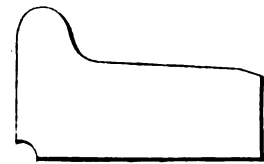
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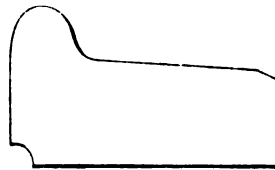
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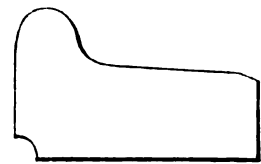
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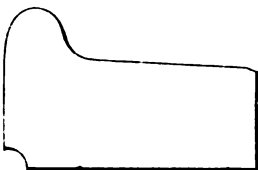
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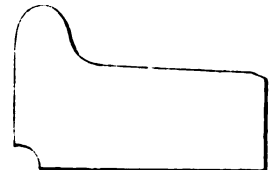
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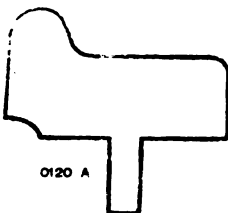
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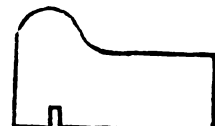
0120



0120 A




0121




0121 A

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.



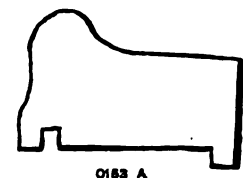
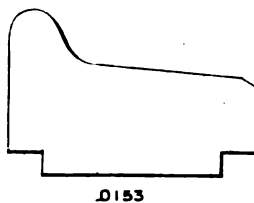
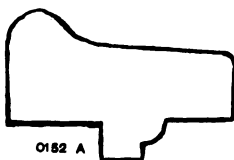
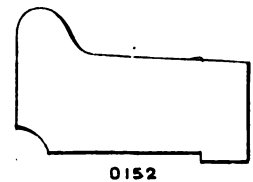
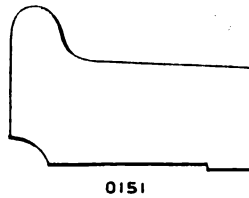
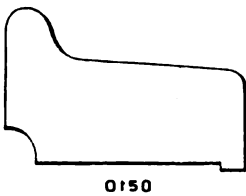
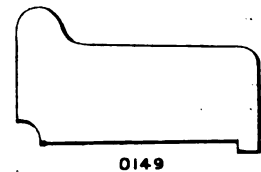
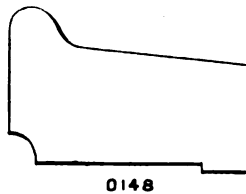
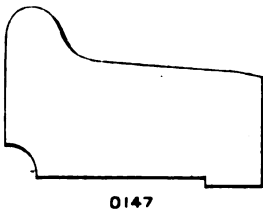
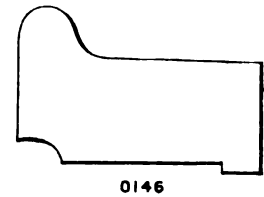
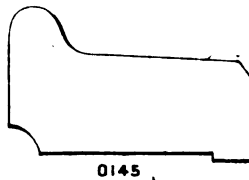
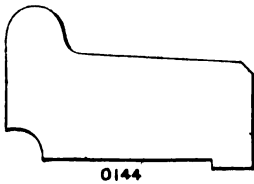
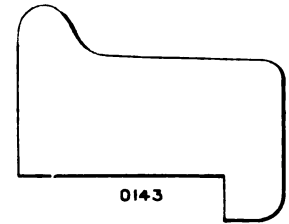
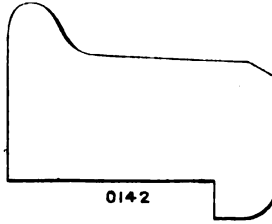
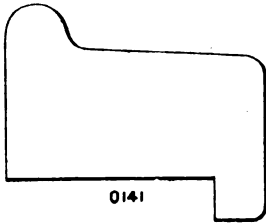
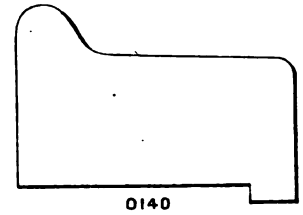
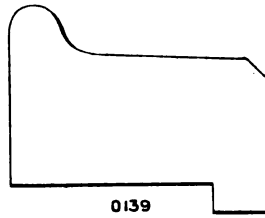
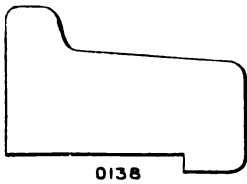
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0137



0137 A

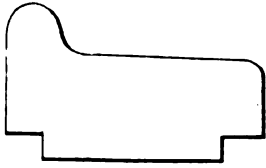
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EDWARD BROOKES.**SECTIONS OF TIRES.**

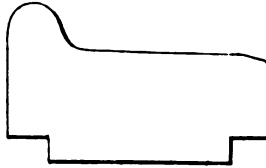
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

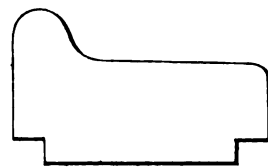
SECTIONS OF TIRES.



0154



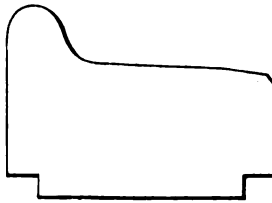
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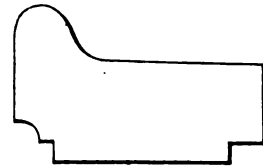
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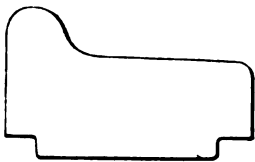
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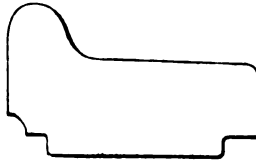
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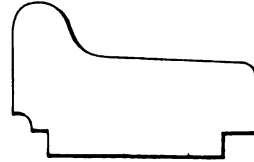
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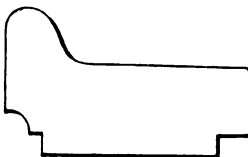
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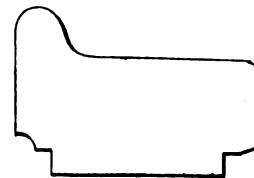
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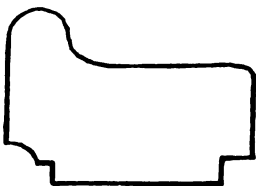
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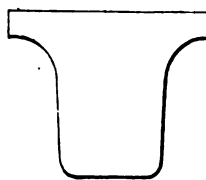
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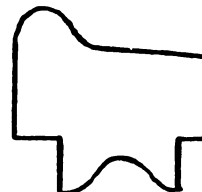
0165



0166



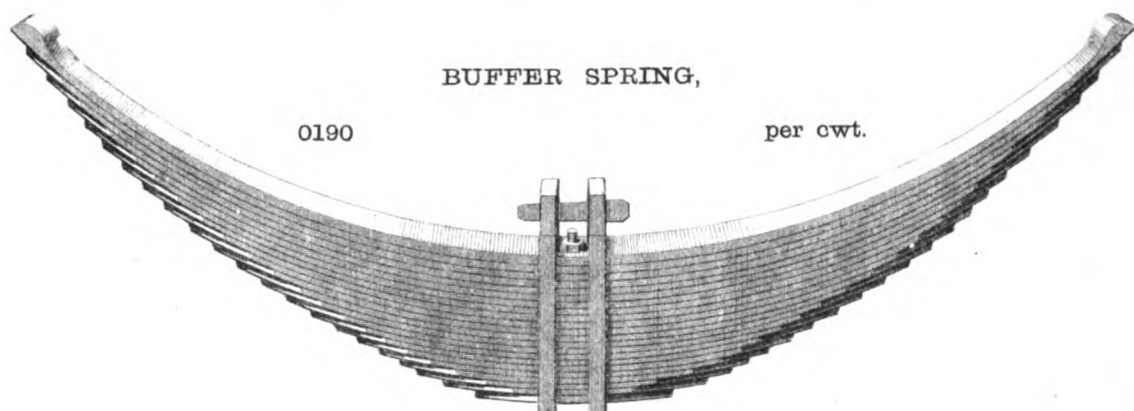
0167



0167 A

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



BUFFER SPRING,

0190

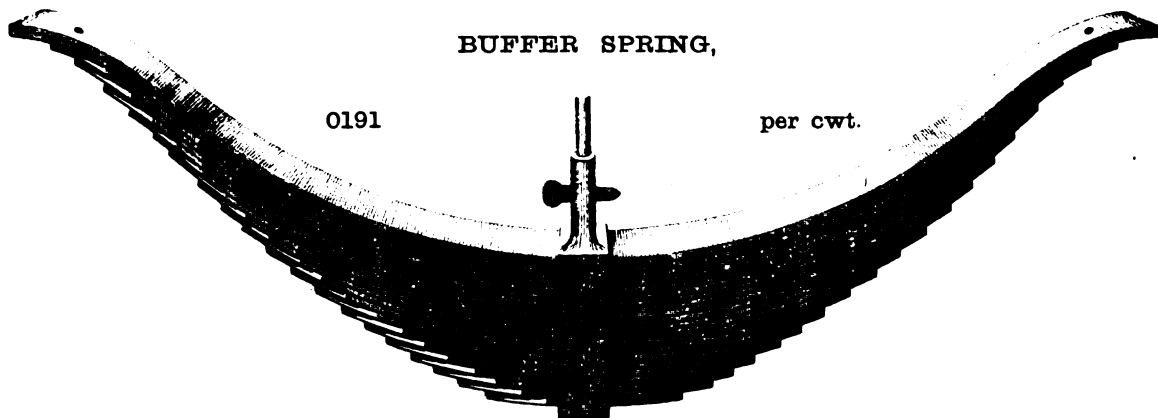
per cwt.



BUFFER SPRING,

0191

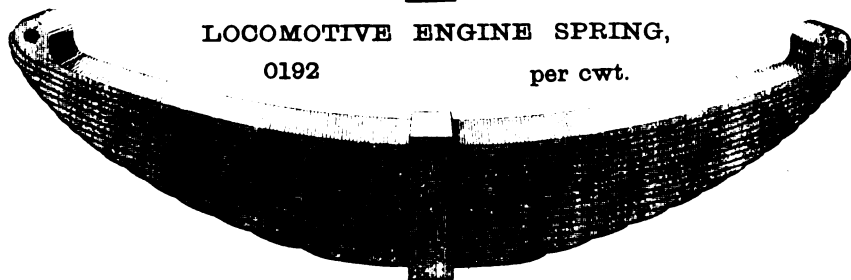
per cwt.



LOCOMOTIVE ENGINE SPRING,

0192

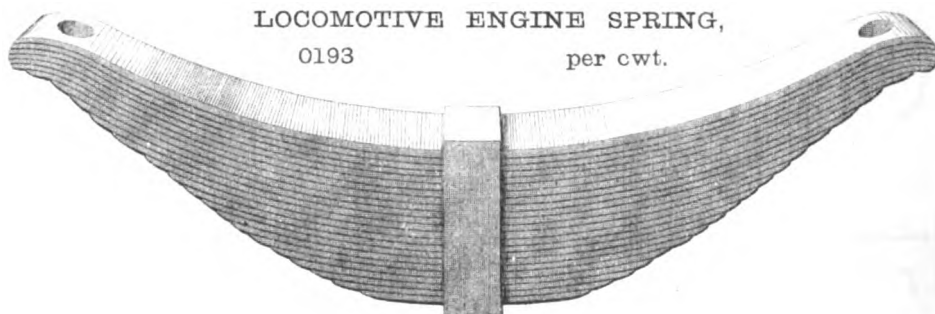
per cwt.



LOCOMOTIVE ENGINE SPRING,

0193

per cwt.



ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS.

IF MADE OF CAST STEEL,

per cwt. extra.

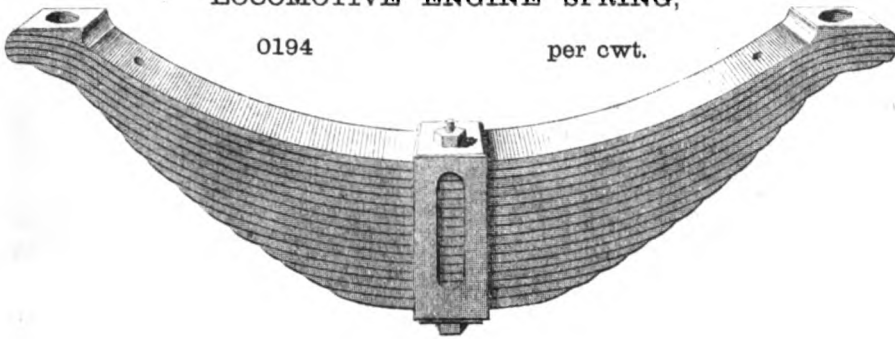
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

LOCOMOTIVE ENGINE SPRING,

0194

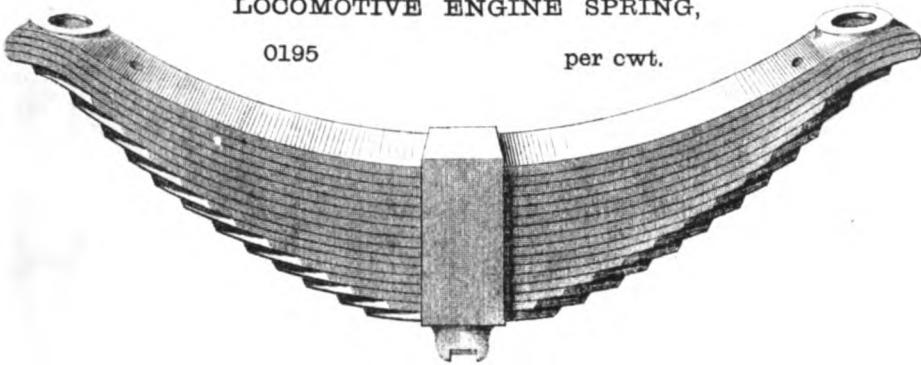
per cwt.



LOCOMOTIVE ENGINE SPRING,

0195

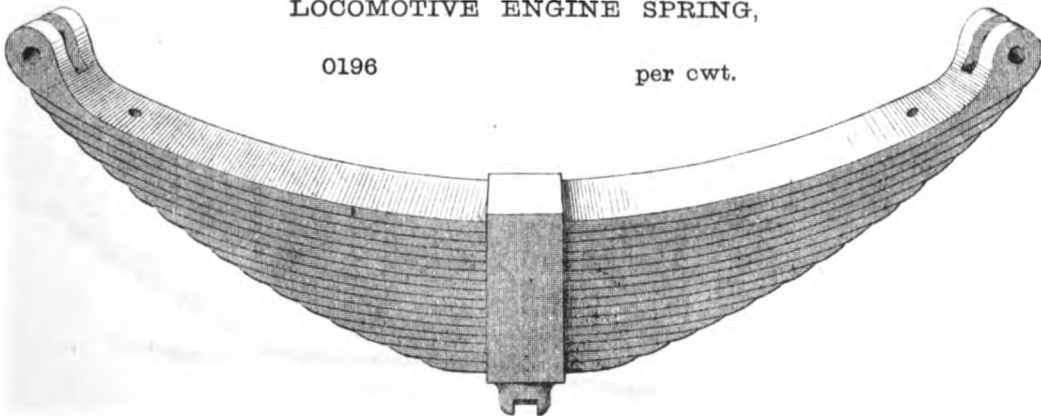
per cwt.



LOCOMOTIVE ENGINE SPRING,

0196

per cwt.



ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS.

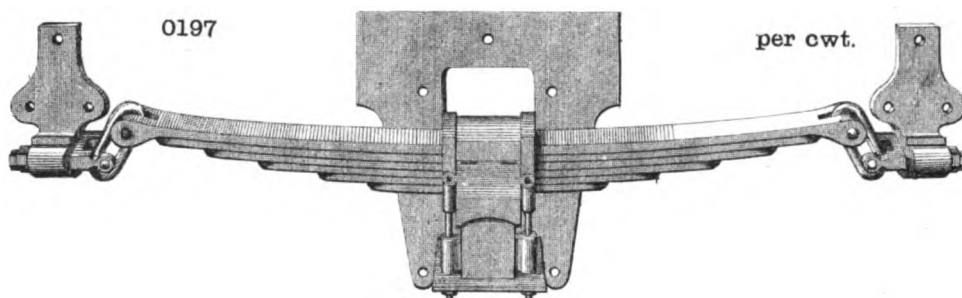
IF MADE OF CAST STEEL,

per cwt. extra.

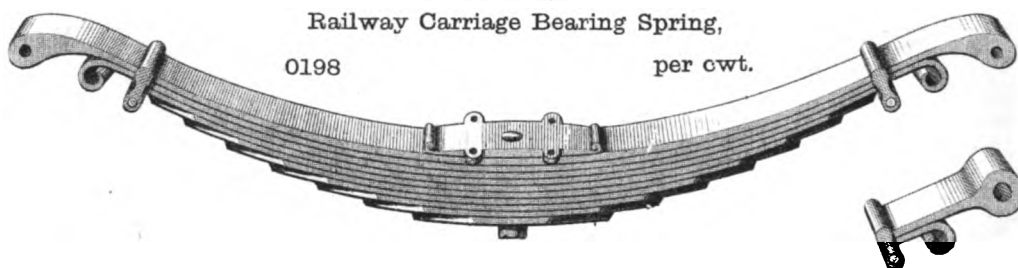
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

349
EDWARD BROOKES.

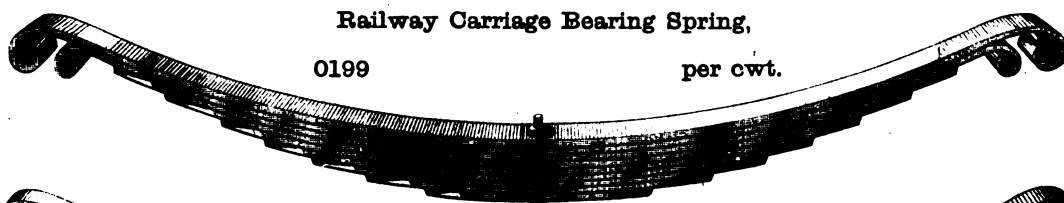
Railway Carriage Bearing Spring,



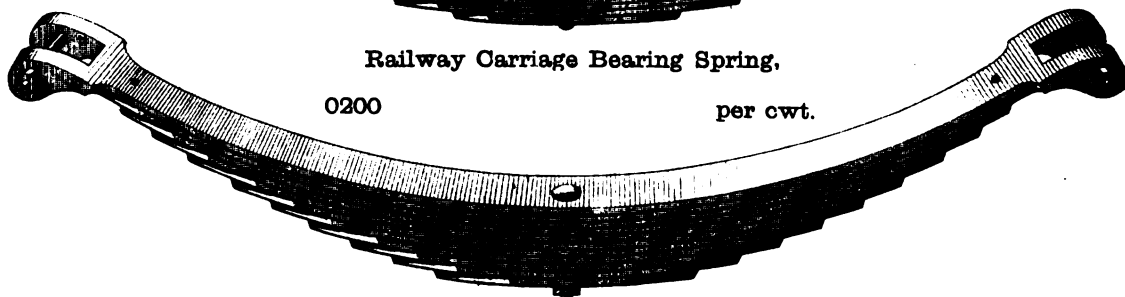
Railway Carriage Bearing Spring,



Railway Carriage Bearing Spring,



Railway Carriage Bearing Spring,

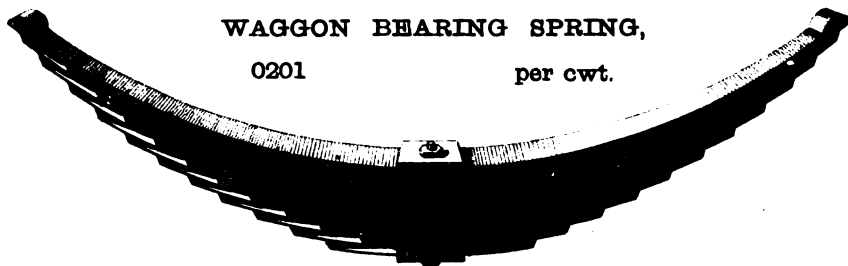


ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS.

IF MADE OF CAST STEEL, per cwt. extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

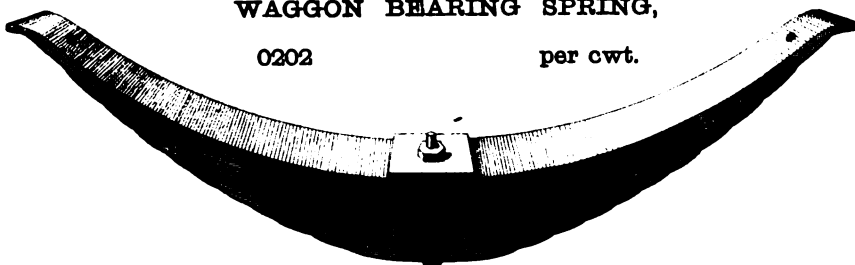
EDWARD BROOKES.



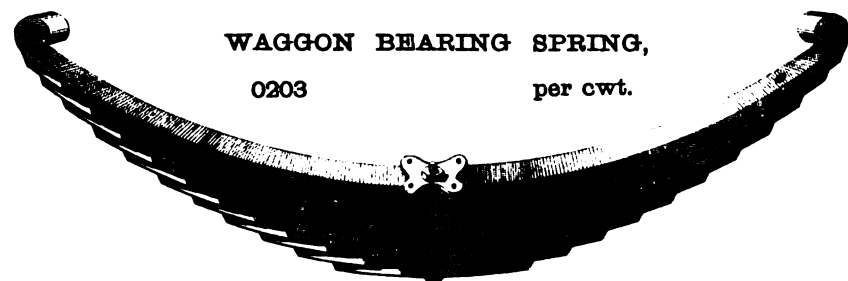
WAGGON BEARING SPRING,
0201 per cwt.



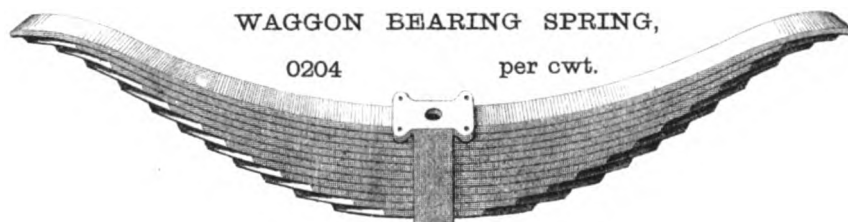
WAGGON BEARING SPRING,
0202 per cwt.



WAGGON BEARING SPRING,
0203 per cwt.



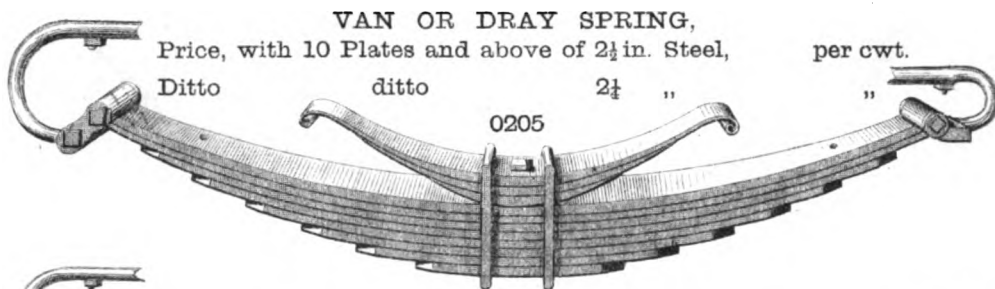
WAGGON BEARING SPRING,
0204 per cwt.



ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS.
IF MADE OF CAST STEEL, per cwt. extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

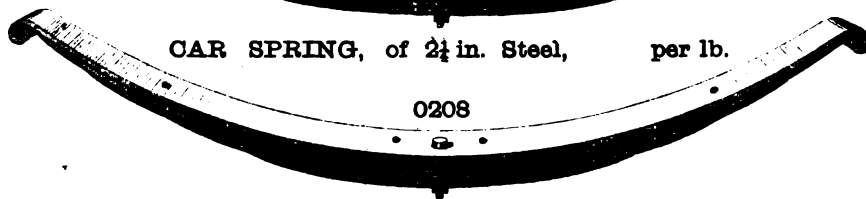
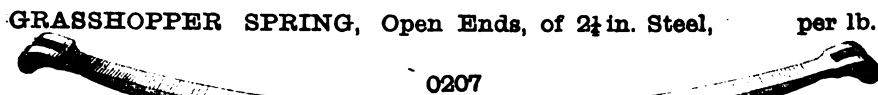
EDWARD BROOKES.



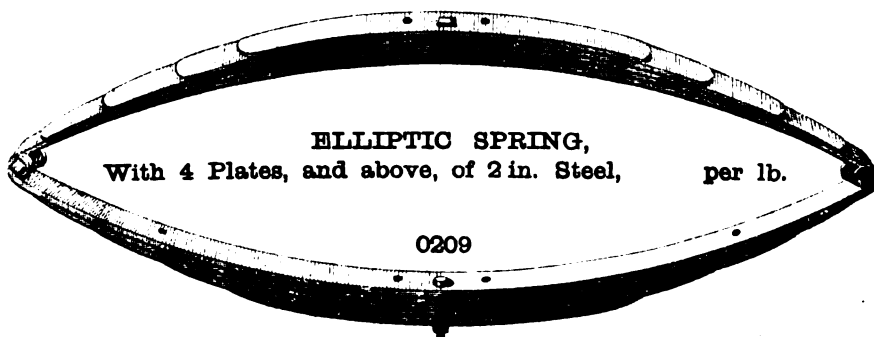
VAN OR DRAY SPRING,
Price, with 10 Plates and above of 2½ in. Steel, per cwt.
Ditto ditto 2½ " "



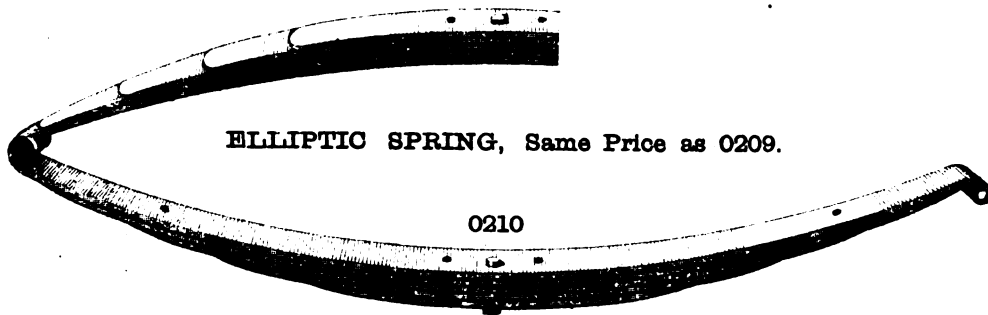
VAN OR DRAY SPRING, Price as 0205.



CAR SPRING, of 2½ in. Steel, per lb.



ELLIPTIC SPRING,
With 4 Plates, and above, of 2 in. Steel, per lb.



ELLIPTIC SPRING, Same Price as 0209.

If any of the above Springs are Bright, per lb. extra.

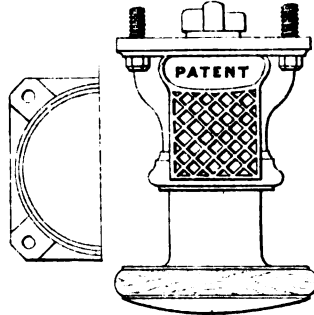
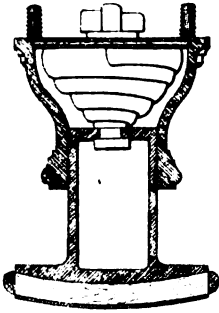
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

852

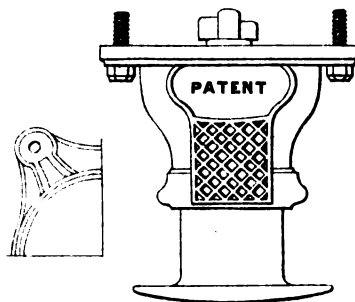
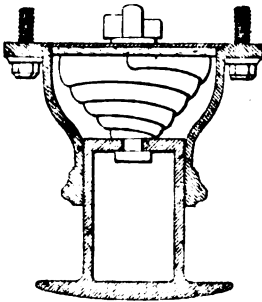
EDWARD BROOKES.

RAILWAY LOCOMOTIVE & CARRIAGE BUFFERS

0211

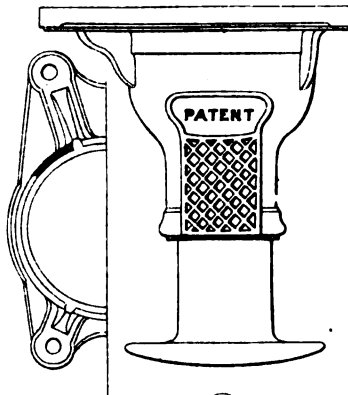
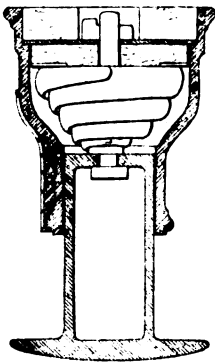


0212

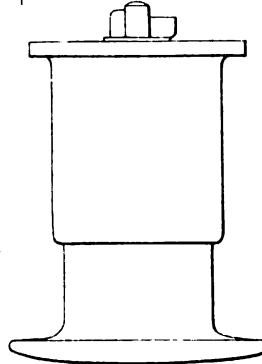
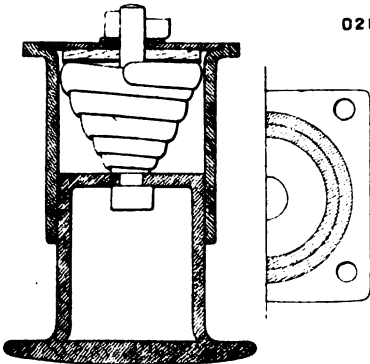


RAILWAY LOCOMOTIVE & CARRIAGE BUFFERS.

0215



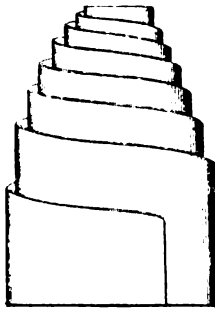
0216



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

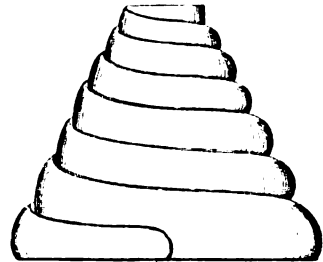
BUFFER AND DRAW SPRINGS.



0221A
VOLUTE.

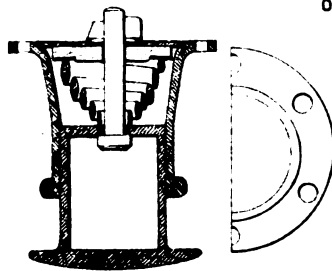


0221B
SPIRAL.

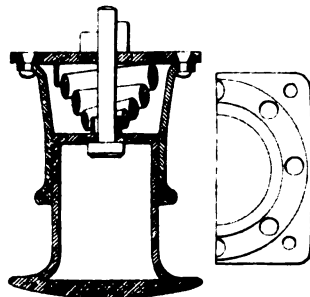
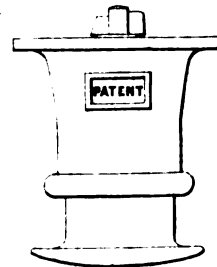


0221C
CONICAL.

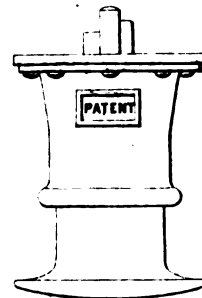
RAILWAY LOCOMOTIVE & CARRIAGE BUFFERS



0213



0214



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

CONICAL RAILWAY BUFFER AND DRAW SPRINGS, WARRANTED TO CARRY, ACCORDING TO SIZE, FROM 3 TO 7 TONS.

PRICES PER SET COMPLETE, OF FOUR BUFFERS.

Delivered in Hull or Liverpool, with Wrought-iron Cylinder Plungers, and Oval Cast Steel Springs.

No.		Inside diam. of Boxes.	Amount of Action.	Resisting Power	Full Length when fixed.	Price per Set of four complete.
8	For Small Mineral Waggon's	8 inch.	2½ inch.	2½ tons.	14½ inch.	
9	For Mineral Waggon's	9 "	3 "	3½ "	16½ "	
0217	For Goods Vans, Horse Boxes, &c.	10 "	4 "	5½ "	17½ "	
0218	For Locomotive Engines and Tenders	11 "	5 "	6½ "	19 "	
9½	For Passenger Carriages	9½ "	6 "	4 "	23 "	
7½	Improved Elliptical Waggon Buffer, with Wrought Iron Cylinder Plunger, and Elliptical Cast Steel Spring	7½ "	2½ "	3½ "	14 "	
	Intermediate Engine and Tender Buffer..... per pair	.....	2½ "	5½ "	.....
6½	Draw Springs, fitted with short Iron Rods and Cast	6½ "	2 "	8½ "	.....
7½	Iron Boxes per pair	7½ "	2½ "	5 "	.....

If Heads Hooped with Half-round Iron, per set extra. If Iron Face Plated, per set extra.

PRICES PER SET OF FOUR CAST STEEL PATENT CONICAL SPRINGS ONLY.

Action and resisting power as above.

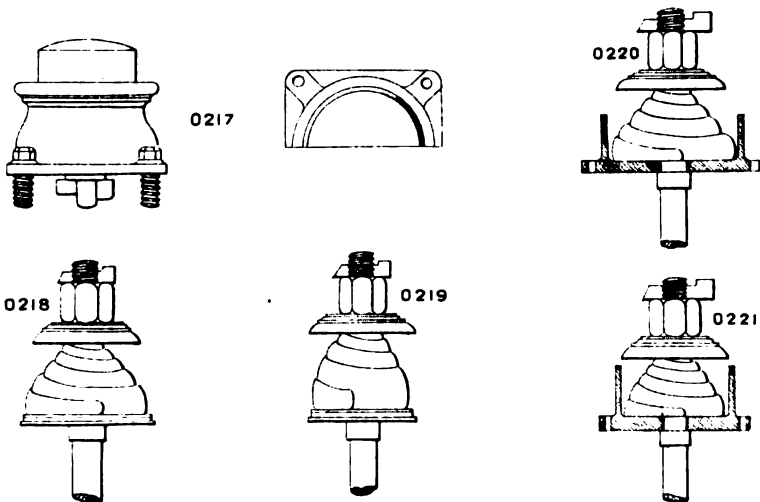
7½ inch. 8 inch. 9 inch. 9½ inch, extreme diameter.

ELLIPTICAL DRAW SPRINGS, per pair of Two Springs.

6½ inch. 7½ inch.

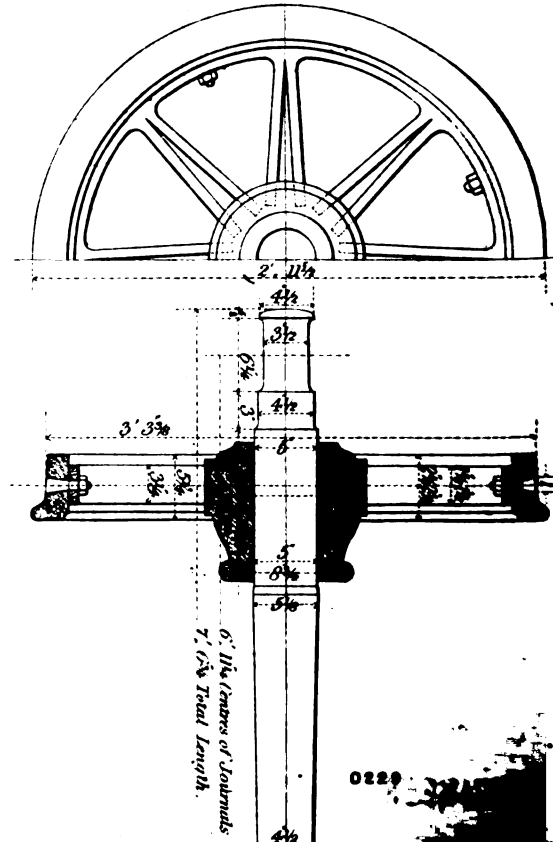
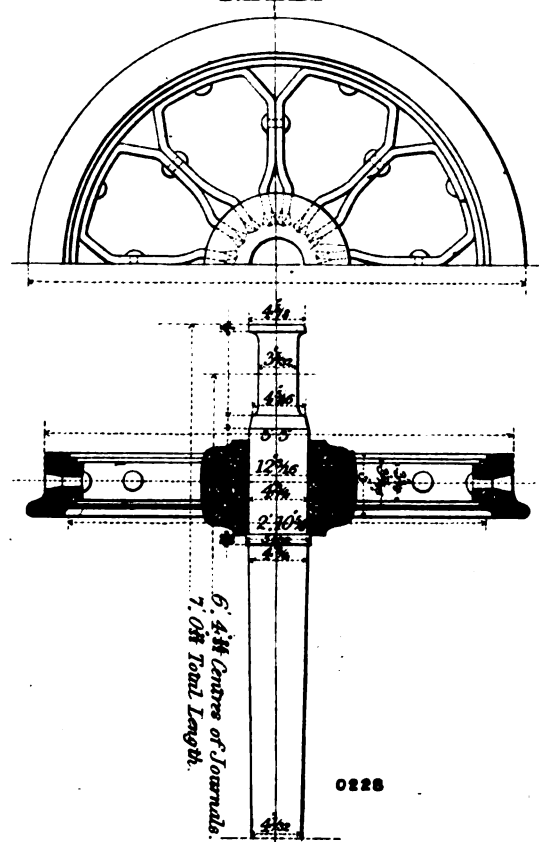
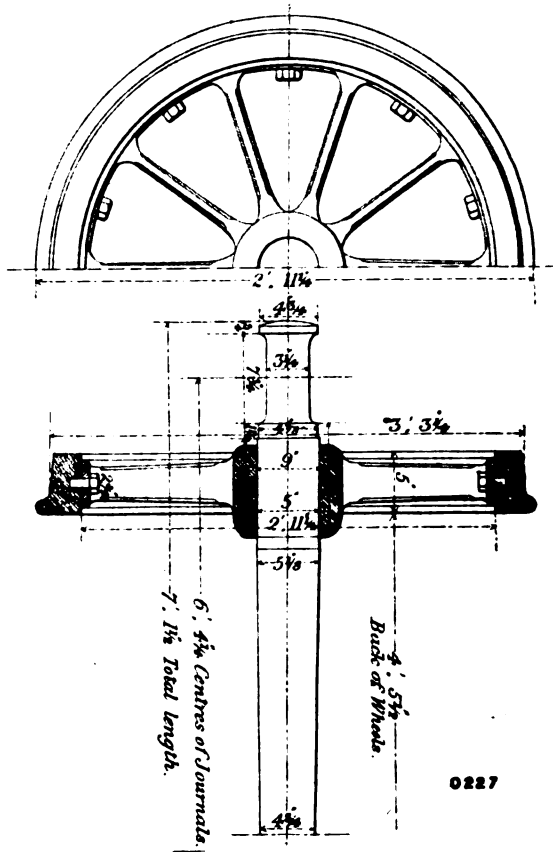
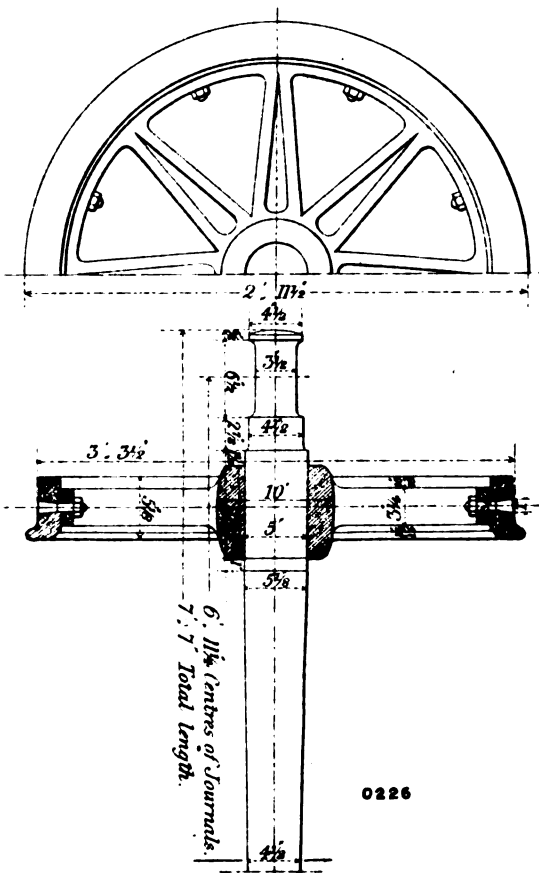
NEW IMPROVED ELLIPTICAL DRAW SPRINGS, Four Tons resisting power, for Mineral Waggon's. per pair.

RAILWAY LOCOMOTIVE & CARRIAGE BUFFERS



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

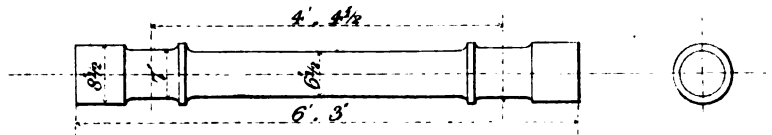


356
EDWARD BROOKES.

Locomotive Straight Axle

FORGED IN CAST STEEL.

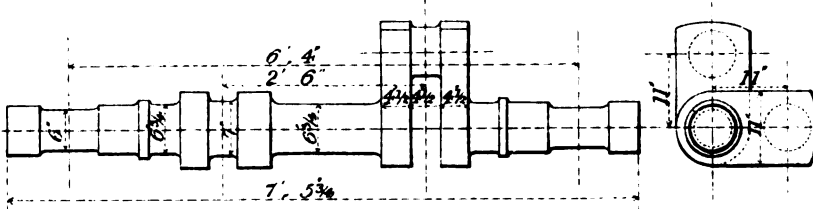
0230



Locomotive Crank Axle

FORGED IN CAST STEEL.

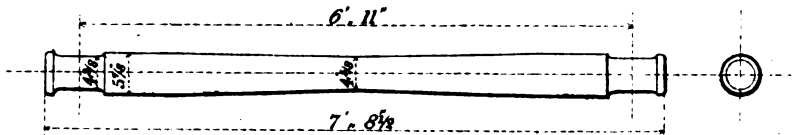
0231



Tender Axle

FORGED IN CAST STEEL.

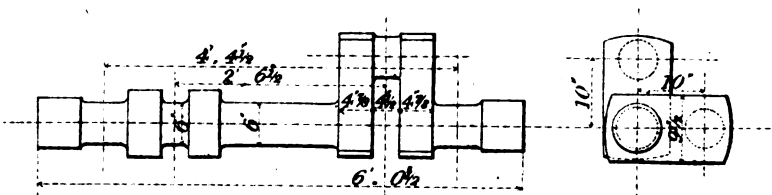
0232



Locomotive Crank Axle

FORGED IN CAST STEEL.

0234

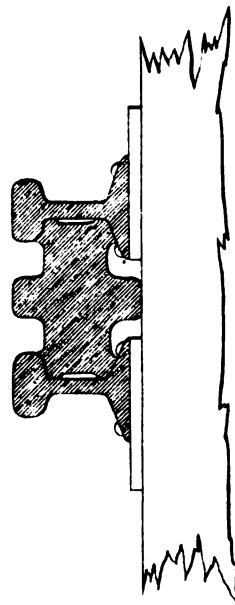
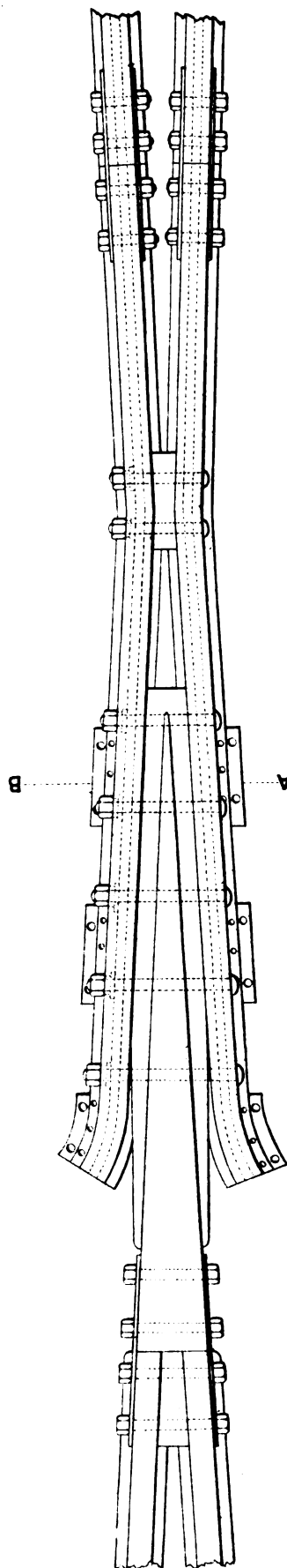


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

ARMSTRONG'S PATENT SOLID FORCED STEEL CROSSING, WITH REVERSIBLE V.

0235



SECTION AT A. B.

Scale of Plan $\frac{3}{4}$ In. = 1 Foot.

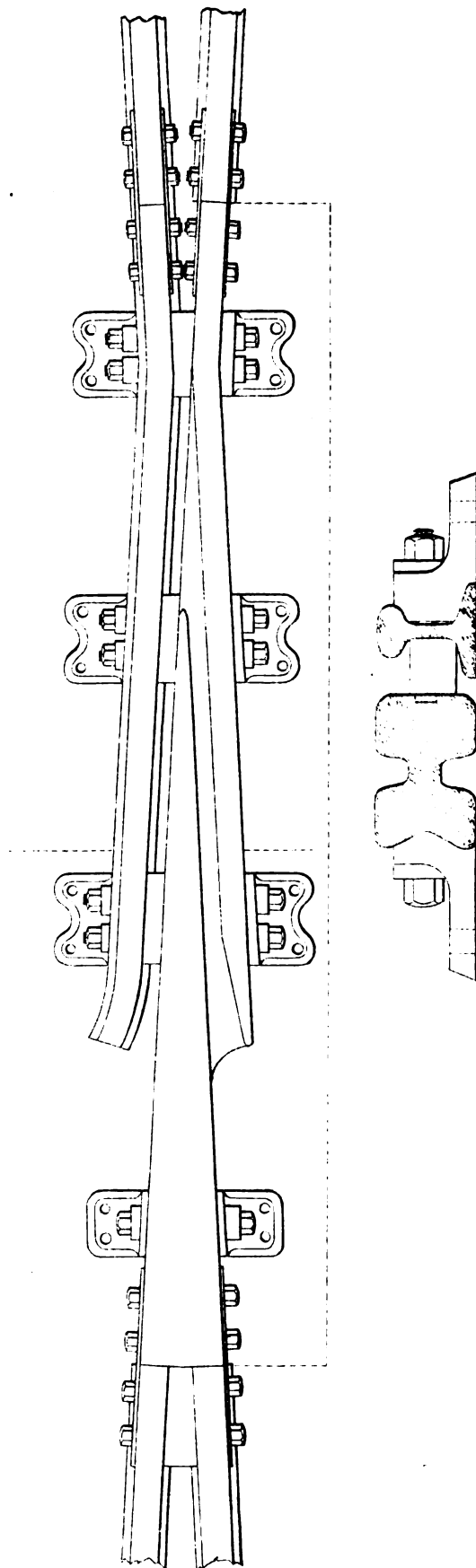
Scale of Section $1\frac{1}{2}$ Ins. = 1 Foot.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

ARMSTRONG'S IMPROVED PATENT. FORGED CAST STEEL REVERSIBLE MAIN LINE CROSSING.

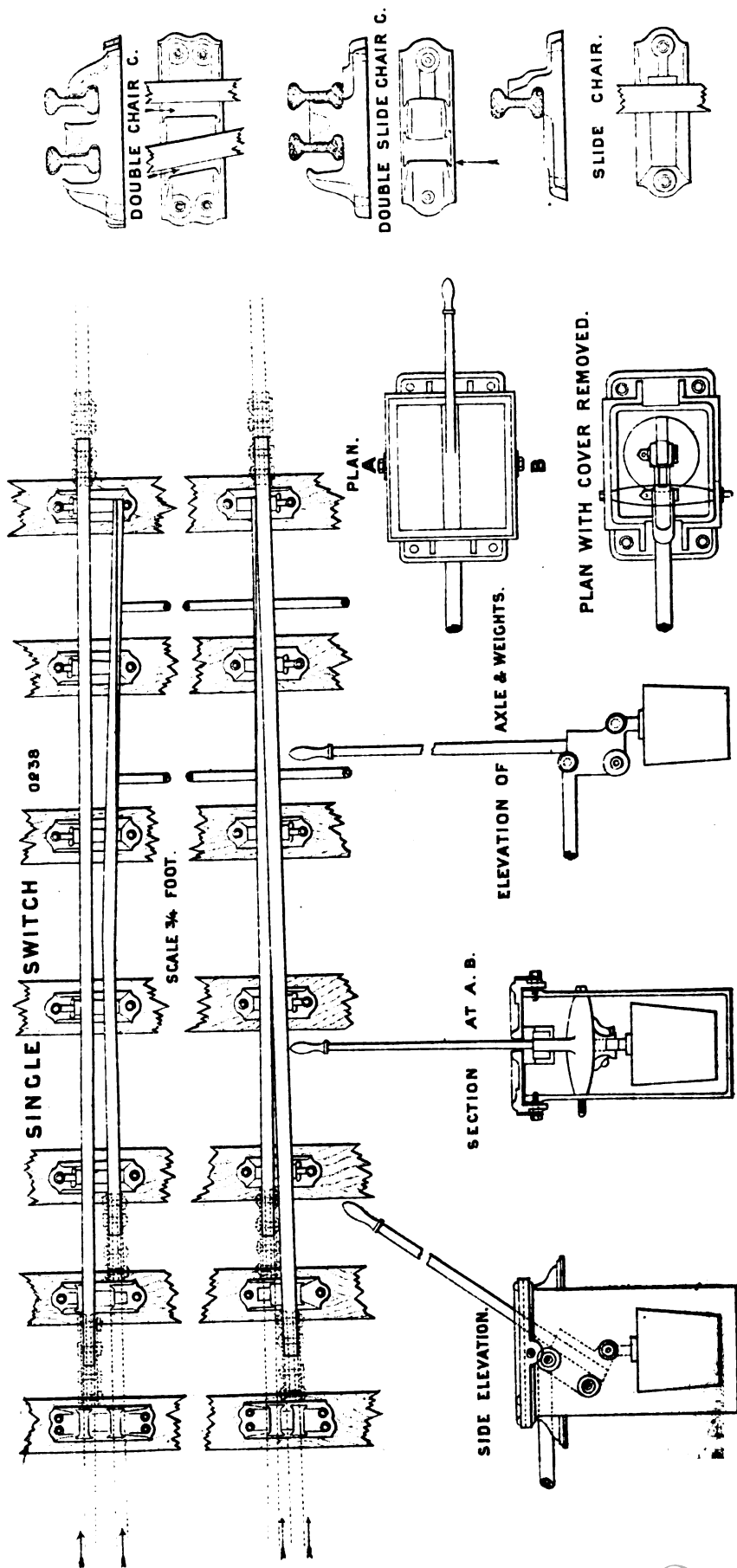
0236



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

359

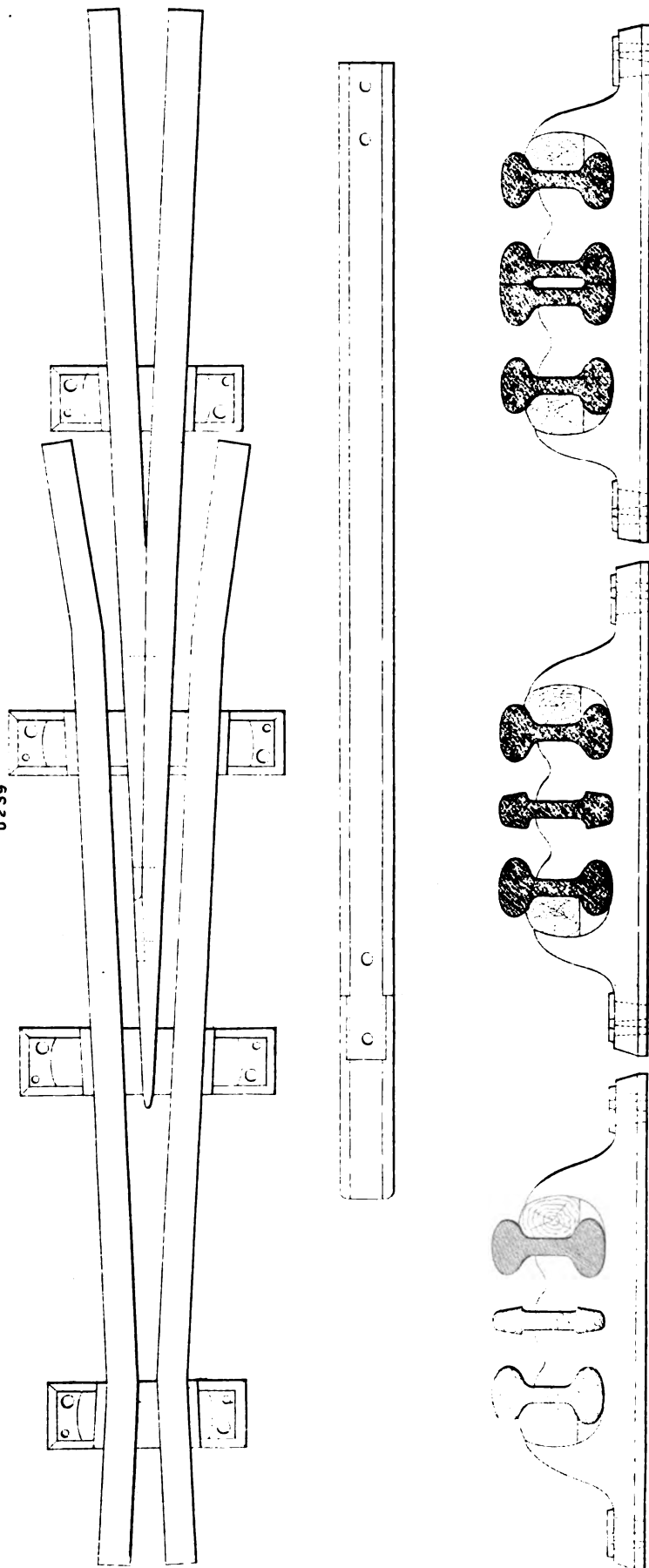


ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

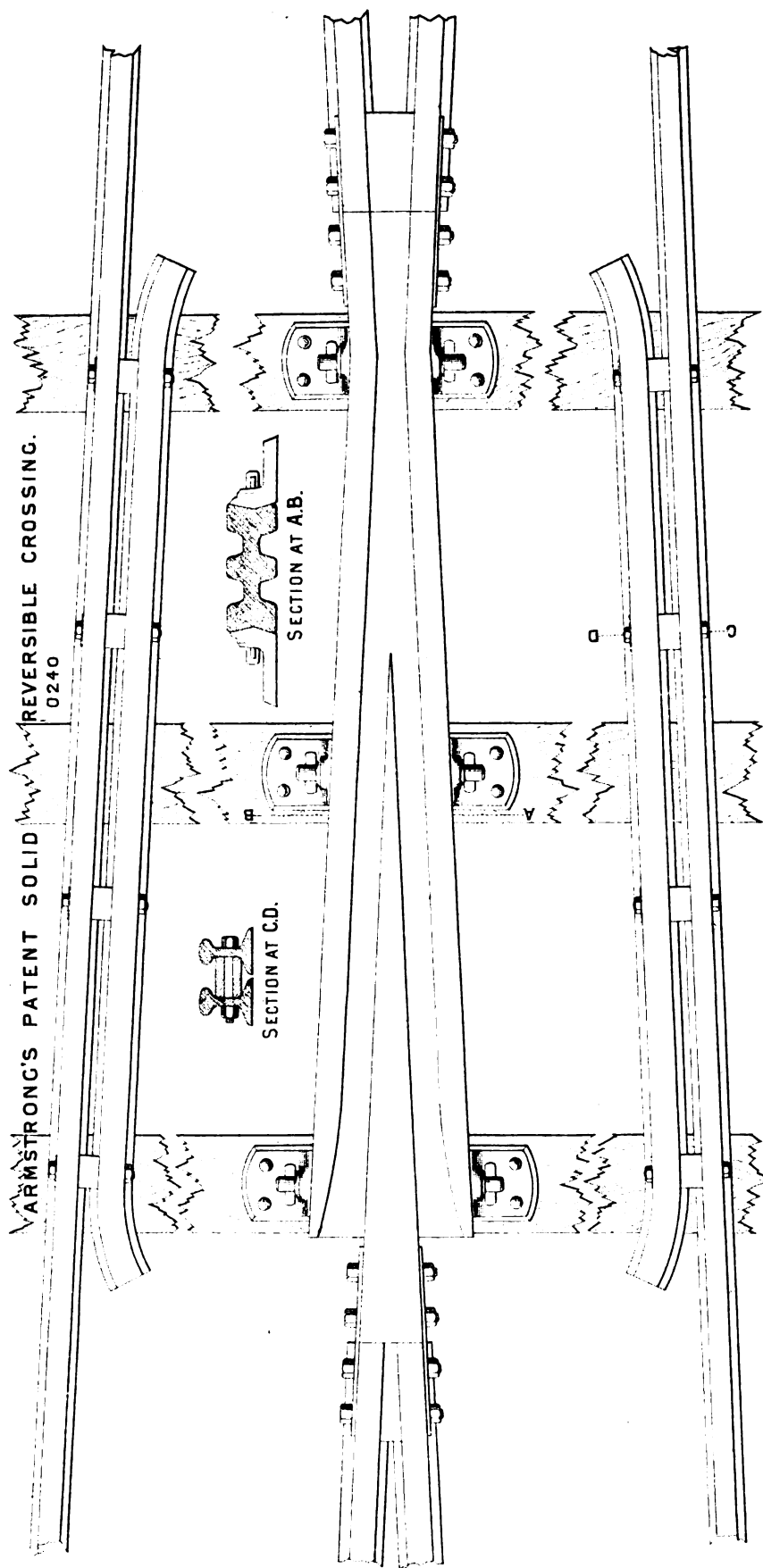
EDWARD BROOKES.

BRIDGEWATER'S PATENT RAILWAY CROSSING.

0239



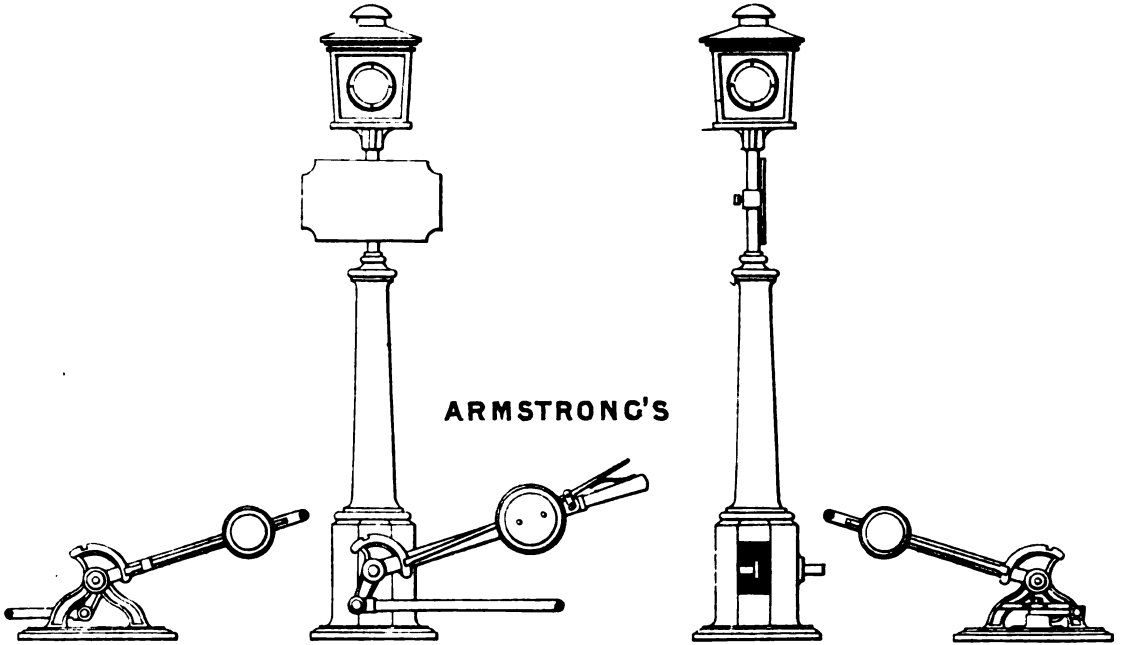
EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

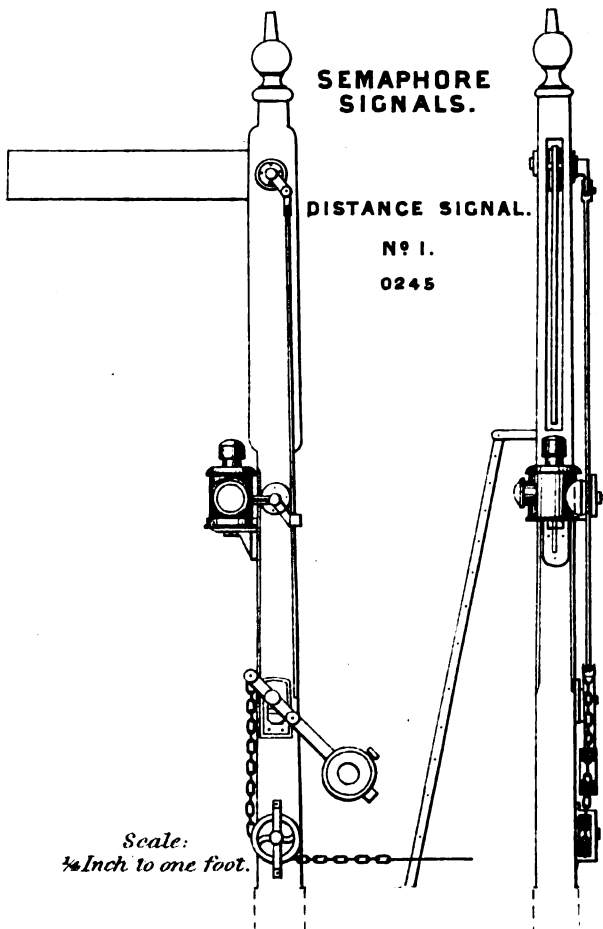
ARMSTRONG'S



0241
PATENT LEVER BOX WORKING
AT RIGHT ANGLES TO RAILS.

0243
PATENT LEVER BOX WORKING
IN CONNECTION WITH SIGNAL & LAMP.

0244
PATENT LEVER BOX WORKING
PARALLEL TO RAILS.

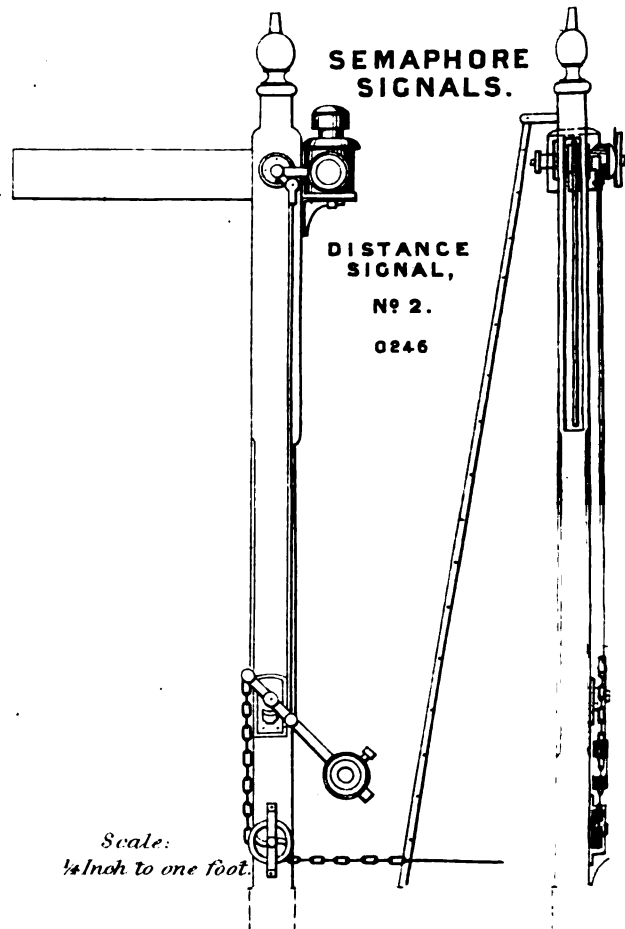


SEMAPHORE
SIGNALS.

DISTANCE SIGNAL.

Nº 1.
0245

Scale:
 $\frac{1}{4}$ Inch to one foot.



SEMAPHORE
SIGNALS.

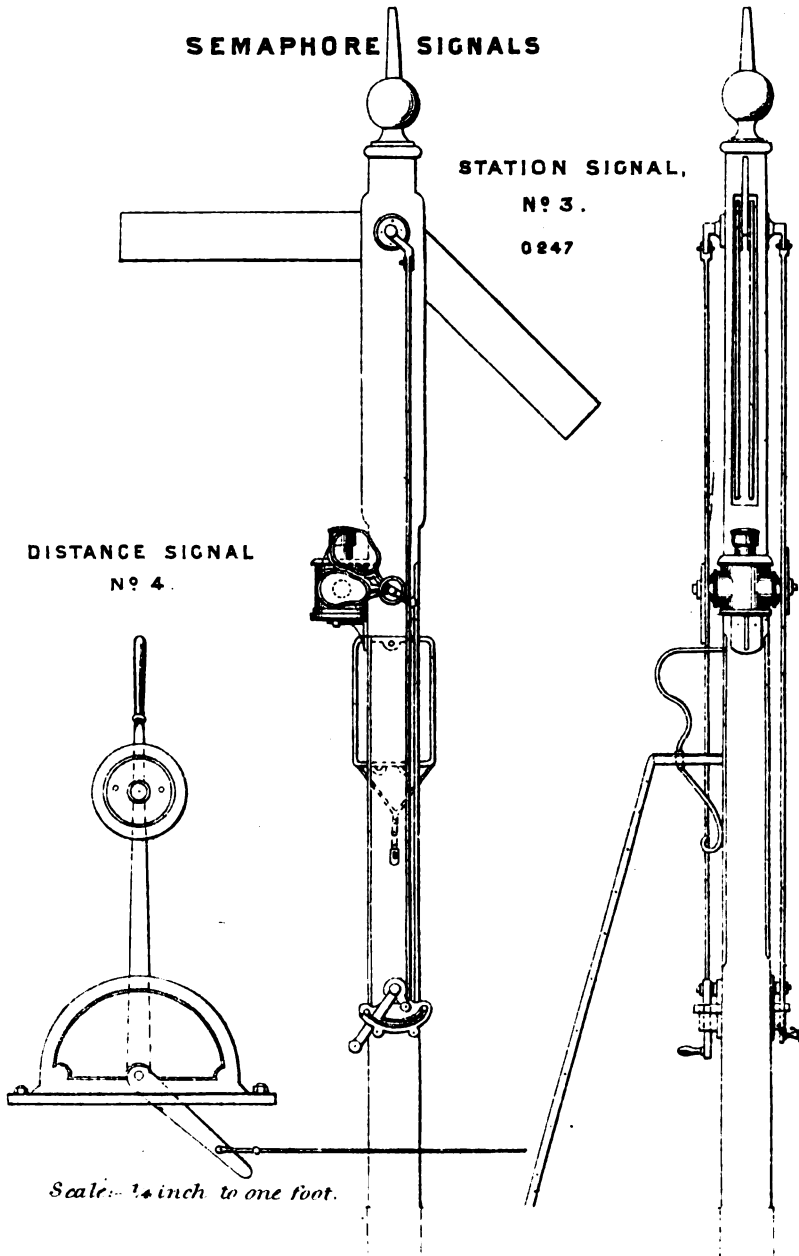
DISTANCE
SIGNAL,

Nº 2.
0246

Scale:
 $\frac{1}{4}$ Inch to one foot.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

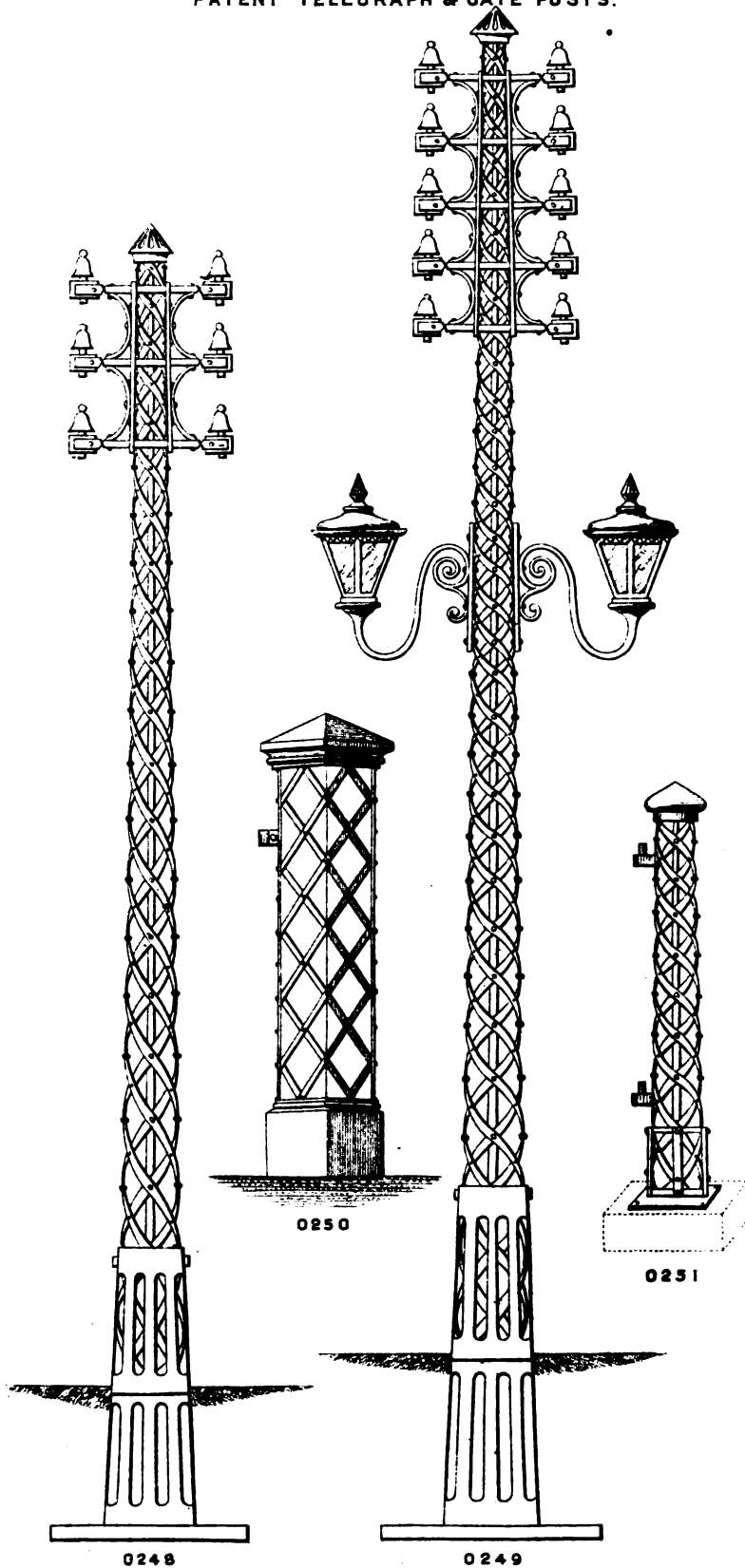
EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

PATENT TELEGRAPH & GATE POSTS.


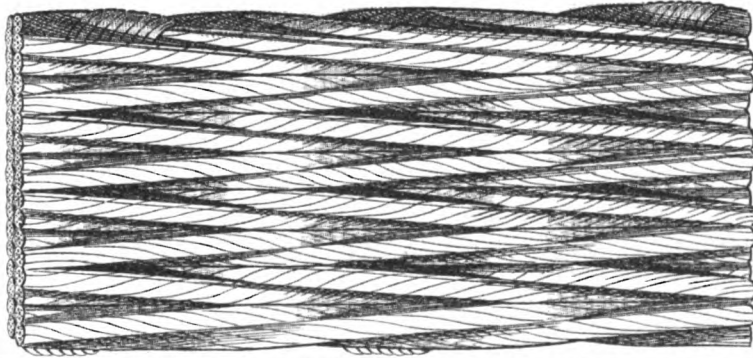
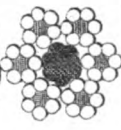
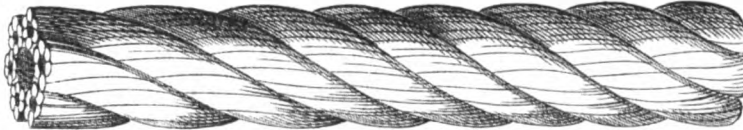


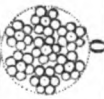

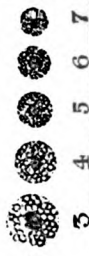
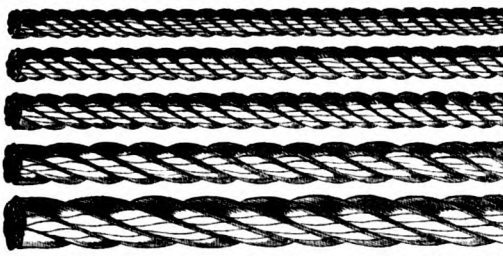


EDWARD BROOKES.



ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

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<div>FLAT WIRE ROPE.</div> <div>ROUND</div>	<div></div>	<div>ROUND WIRE ROPE.</div>	<div></div>	<div>GALVANIZED WIRE STRAND, &c., For Fencing and Signal Cord. DRAWING FULL SIZE.</div>	<div></div> <table><tr><td>Birming- ham Wire Gauge.</td><td>Weight per 100 yds.</td><td>Breaking Strain.</td><td>Price per Cwt.</td><td>Price per 100 Yds.</td></tr><tr><td>No. 0</td><td>72 lbs.</td><td>36 cwt.</td><td></td><td></td></tr><tr><td>" 1</td><td>62 "</td><td>30 "</td><td></td><td></td></tr><tr><td>" 2</td><td>52 "</td><td>25 "</td><td></td><td></td></tr><tr><td>" 3</td><td>42 "</td><td>20 "</td><td></td><td></td></tr><tr><td>" 4</td><td>34 "</td><td>15 "</td><td></td><td></td></tr><tr><td>" 5</td><td>29 "</td><td>12 "</td><td></td><td></td></tr></table>	Birming- ham Wire Gauge.	Weight per 100 yds.	Breaking Strain.	Price per Cwt.	Price per 100 Yds.	No. 0	72 lbs.	36 cwt.			" 1	62 "	30 "			" 2	52 "	25 "			" 3	42 "	20 "			" 4	34 "	15 "			" 5	29 "	12 "			<div>COPPER CORD, for Window Sash Line, Hot-houses, &c. COPPER ROPE LIGHTNING CONDUCTORS, With Fittings, all complete.</div>	<div></div> <table><tr><td>Copper Cord.</td><td>Circum- ference.</td><td>Working Load.</td><td>Price per 100 feet.</td></tr><tr><td>No. 0</td><td>1 1/4 in.</td><td>448 lbs.</td><td>75/0</td></tr><tr><td>" 1</td><td>1 1/8 "</td><td>336 "</td><td>60/0</td></tr><tr><td>" 2</td><td>1 "</td><td>224 "</td><td>40/0</td></tr><tr><td>" 3</td><td>3/4 "</td><td>168 "</td><td>30/0</td></tr><tr><td>" 4</td><td>3/8 "</td><td>112 "</td><td>25/0</td></tr><tr><td>" 5</td><td>3/8 "</td><td>75 "</td><td>15/0</td></tr><tr><td>" 6</td><td>3/8 "</td><td>50 "</td><td>12/6</td></tr><tr><td>" 7</td><td>3/8 "</td><td>34 "</td><td>10/0</td></tr></table>	Copper Cord.	Circum- ference.	Working Load.	Price per 100 feet.	No. 0	1 1/4 in.	448 lbs.	75/0	" 1	1 1/8 "	336 "	60/0	" 2	1 "	224 "	40/0	" 3	3/4 "	168 "	30/0	" 4	3/8 "	112 "	25/0	" 5	3/8 "	75 "	15/0	" 6	3/8 "	50 "	12/6	" 7	3/8 "	34 "	10/0	<div>COPPER CORD, for Window Sash Line, Hot-houses, &c. COPPER ROPE LIGHTNING CONDUCTORS, With Fittings, all complete.</div>	<div></div> <table><tr><td>Copper Cord.</td><td>Circum- ference.</td><td>Working Load.</td><td>Price per 100 feet.</td></tr><tr><td>No. 0</td><td>1 1/4 in.</td><td>448 lbs.</td><td>75/0</td></tr><tr><td>" 1</td><td>1 1/8 "</td><td>336 "</td><td>60/0</td></tr><tr><td>" 2</td><td>1 "</td><td>224 "</td><td>40/0</td></tr><tr><td>" 3</td><td>3/4 "</td><td>168 "</td><td>30/0</td></tr><tr><td>" 4</td><td>3/8 "</td><td>112 "</td><td>25/0</td></tr><tr><td>" 5</td><td>3/8 "</td><td>75 "</td><td>15/0</td></tr><tr><td>" 6</td><td>3/8 "</td><td>50 "</td><td>12/6</td></tr><tr><td>" 7</td><td>3/8 "</td><td>34 "</td><td>10/0</td></tr></table>	Copper Cord.	Circum- ference.	Working Load.	Price per 100 feet.	No. 0	1 1/4 in.	448 lbs.	75/0	" 1	1 1/8 "	336 "	60/0	" 2	1 "	224 "	40/0	" 3	3/4 "	168 "	30/0	" 4	3/8 "	112 "	25/0	" 5	3/8 "	75 "	15/0	" 6	3/8 "	50 "	12/6	" 7	3/8 "	34 "	10/0	<div>GILT PICTURE CORD.</div>	<div></div> <table><tr><td>Gilt Cord.</td><td>Working Load.</td><td>Price per 100 feet.</td></tr><tr><td>No. 1</td><td>11 lbs.</td><td>8/6</td></tr><tr><td>" 2</td><td>22 "</td><td>7/6</td></tr><tr><td>" 3</td><td>30 "</td><td>12/6</td></tr><tr><td>" 4</td><td>35 "</td><td>21/0</td></tr><tr><td>" 5</td><td>50 "</td><td>45/0</td></tr><tr><td>" 6</td><td>80 "</td><td>75/0</td></tr></table>	Gilt Cord.	Working Load.	Price per 100 feet.	No. 1	11 lbs.	8/6	" 2	22 "	7/6	" 3	30 "	12/6	" 4	35 "	21/0	" 5	50 "	45/0	" 6	80 "	75/0
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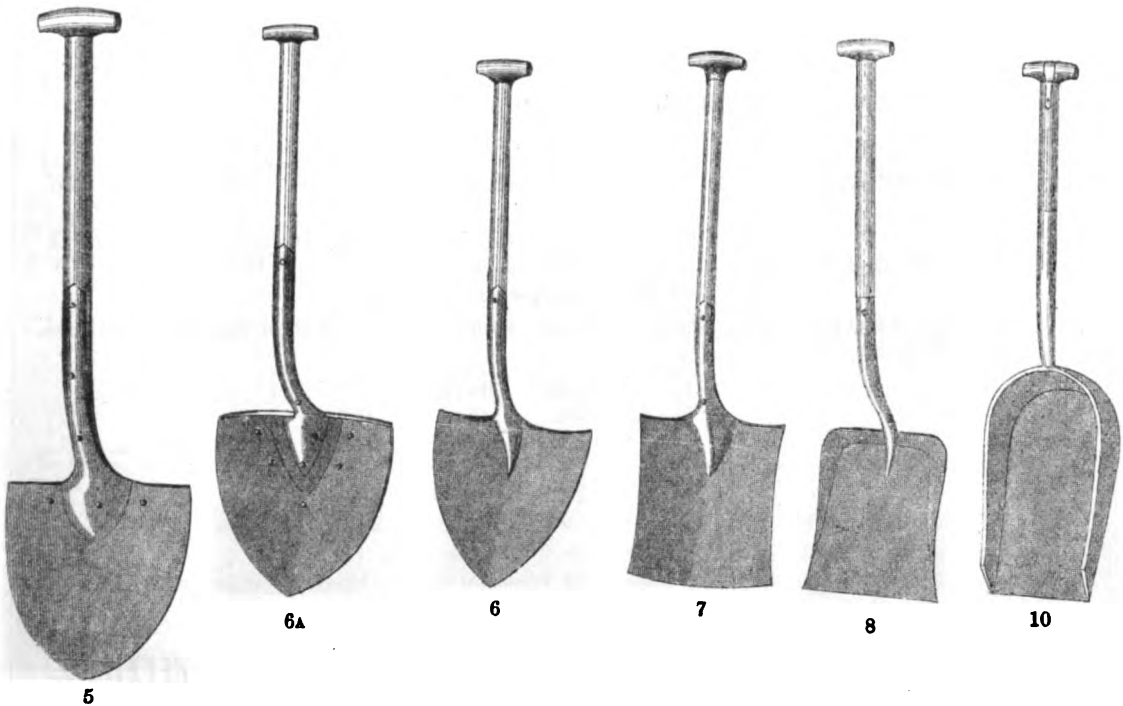
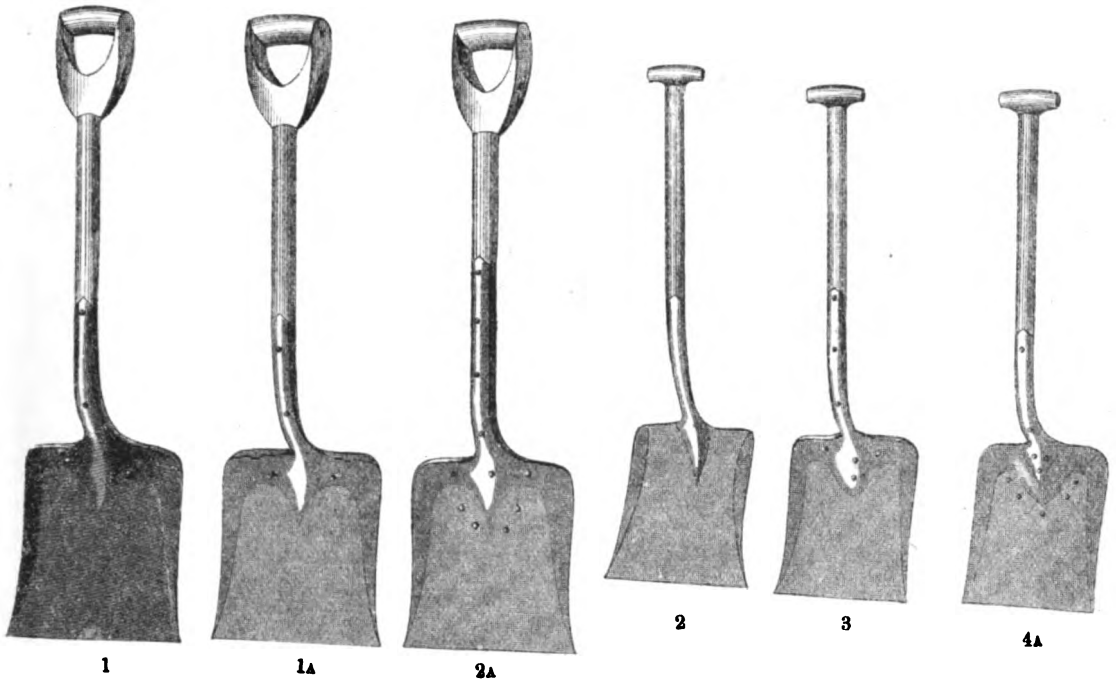
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPADES AND SHOVELS, &c.

No.	1	LONDON and BURTON BALLAST SHOVELS, Crutch Handles—													
		No.	000	00	0	1	2	3	4	5	6	7	8	9	
		In.	8½x10½	8½x11	9x11½	9½x12	10x12½	10½x13	11x13½	11½x14	12x14½	12½x15	13x15½	13½x16	
		Per doz.	27/0	28/0	29/0	30/0	32/0	34/0	36/0	38/0	41/0	44/0	47/0	50/0	

EDWARD BROOKES.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

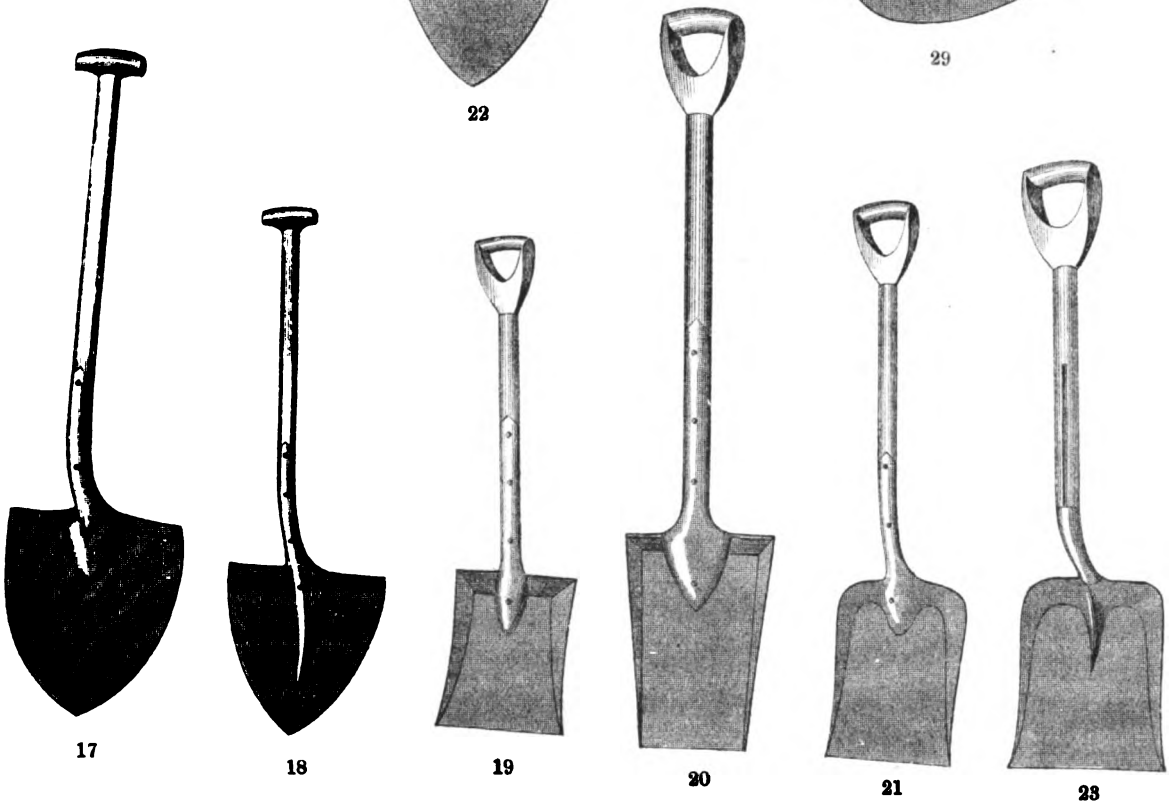
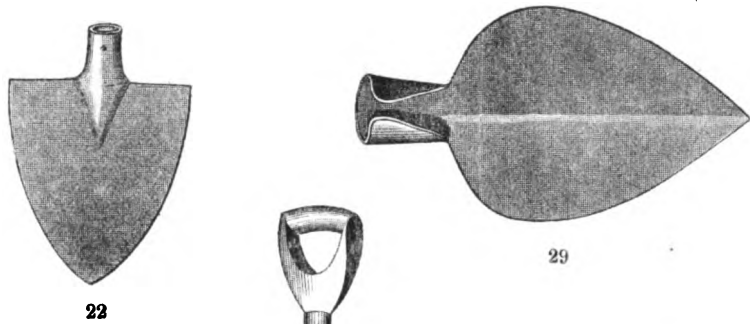
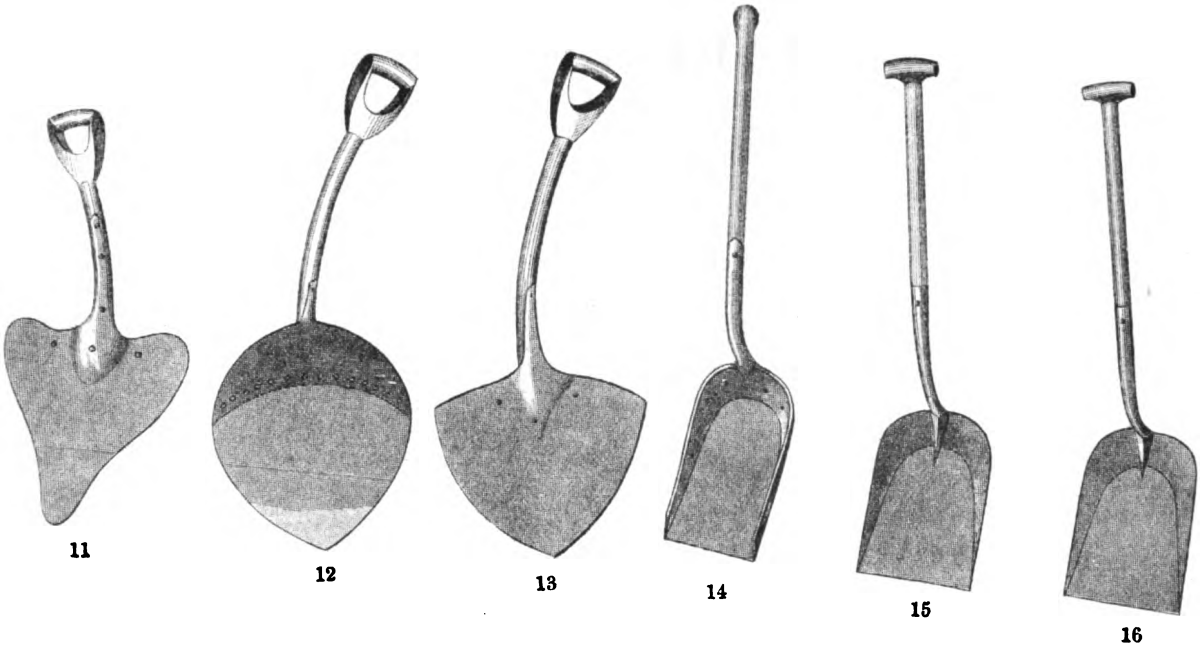
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.		No.	1	2	3
			Wide	15	16	17 in.
			Long	17	18	19 ..
11		NEWCASTLE COAL TRIMMERS' SHOVELS	Per doz.	58/0	62/0	66/0
		If Leathered, 8/0 per doz. extra, gross.				
			No.	1	2	3
			Wide	15	16	17 in.
12		COAL WAGGON SHOVELS, with Cape	Per doz.	54/0	56/0	60/0
			No.	1	2	3
			Wide	15	16	17 in.
13		COAL TRIMMERS' SHOVELS	Per doz.	44/0	46/0	50/0
		If with Leather Guard, 8/0 per doz. extra, gross.				
14		LONDON MUD SHOVELS, Solid, 48/0; Rivetted, 42/0 per doz.				
14A		Ditto ditto Solid Steel, 56/0; Rivetted Steel, 50/0 per doz.				
			No.	1	2	3
			Wide	9	10	9
			Long	18	18	20
15		GAS STOKING SHOVELS	Per doz.	50/0	52/0	54/0
16		Ditto ditto Solid Cast Steel, 8/0 per doz. extra.				
			No.	1	2	3
			In.	10½x12	11x12½	11½x13
17		SCOTCH SHOVELS, Ribbed and Beaded	Per doz.	84/0	86/0	88/0
			No.	0	1	2
			In.	9x10½	9½x11	10x11½
18		LANCASHIRE SHOVELS..	Per doz.	30/0	32/0	34/0
			No.	0	1	2
			In.	9x12	9½x12½	10x13
19		NORFOLK and ESSEX SHOVELS	Per doz.	86/0	88/0	40/0
		If Ground Bottoms, 2/0 per doz. extra, net.				
			No.	3	4	5
			In.	8½x7x12	9½x7½x12½	9½x8x13
20		NORFOLK DIGGING SHOVELS	Per doz.	40/0	42/0	44/0
			No.	0	1	2
			In.	9x12	10x12½	10½x13
21		SUTTON SHOVELS	Per doz.	34/0	36/0	38/0
			No.	0	1	2
			In.	9½x11½	10x12	10½x12½
22		IRISH MINERS' SHOVELS ....Net.	Per doz.	14/0	15/0	16/0
		If Steeled, 4/9 per doz. extra, net.				
23		CENTRE STRAP SOCKET SHOVEL, Square Mouth, Bright Cast Steel Faced, Rivetted Eye, Solid Cofer—				
			No.	1	2	3
			In.	9½x12	10x12½	10½x13
			Per doz.	73/0	75/0	77/0
29		HAY SPADES.....	No.	1	2	3
			Per doz.	36/0	38/0	40/0
		EXTRAS, NET.				
		Long Strap, 2/0 per doz.; Side Strap, 2/0 per doz.; Rivetted Eye, 2/0 per doz. extra.				
		Strapped Treads, 2/0 per doz.; Steel Top Tools, 2/0 per doz. extra.				
		Bright Spades and Shovels, 4/0 per doz.; Long Trees, 2/0 per doz., for every 4 in., extra.				
		Ground Bottoms, 1/0 per doz.; Back Straps, 6/0 per doz. extra.				

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No. 24	CENTRE STRAP SOCKET SHOVELS, Round Mouth, Bright Cast Steel Faced, Rivetted Eye, Solid Cofer—																											
		No. 1		2		3																							
		In. 10½x12		11x12½		11½x13																							
		Per doz. 73/0		75/0		77/0																							
	25	AMERICAN CAST STEEL SHOVELS, All Bright, Round Mouth, Double Rivetted Eye Trees—																											
		No. 1		2		3		4																					
		In. 9x11½		9½x12		10x12½		10½x13																					
		Per doz. 48/0		50/0		52/0		55/0																					
	26	AMERICAN CAST STEEL SHOVELS, All Bright, Square Mouth, Double Rivetted Eye Trees—																											
		No. 1		2		3		4		5																			
		In. 9x11½		9½x12		10x12½		10½x13		11x13½																			
		Per doz. 48/0		50/0		52/0		54/0		56/0																			
	27	LONG HANDLED IRISH SPADES <table><tr><td>No.</td><td>1</td><td>2</td><td>3</td></tr><tr><td>In.</td><td>7x5½x14</td><td>7½x6x14½</td><td>8x6½x15</td></tr><tr><td>Per doz.</td><td>40/0</td><td>42/0</td><td>44/0</td></tr></table>										No.	1	2	3	In.	7x5½x14	7½x6x14½	8x6½x15	Per doz.	40/0	42/0	44/0						
No.	1	2	3																										
In.	7x5½x14	7½x6x14½	8x6½x15																										
Per doz.	40/0	42/0	44/0																										
	28	LONG HANDLED IRISH SPADES, Solid Steel or Rivetted, 8/0 per doz. extra to No. 27.																											
	29	See Previous Pages.																											
	30	CENTRE STRAP SOCKET SPADES, All Bright, Cast Steel Faced, Double Rivetted Eye, Solid Cofer—																											
		No. 1		2		3																							
		In. 7x11		7½x11½		8x12																							
		Per doz. 73/0		75/0		77/0																							
	30A	Ditto	ditto	If Treaded, 7/6 per doz. extra, gross.																									
	31	EXTRA LONG DOUBLE STRAP SOCKET SPADES, All Bright, Cast Steel Faced, Double Rivetted Eye, Solid Cofer—																											
		No. 1		2		3																							
		In. 7x11		7½x11½		8x12																							
		Per doz. 71/0		73/0		75/0																							
	31A	Ditto	ditto	If Treaded, 7/6 per doz. extra, gross.																									
	32	LONDON TREADED SPADES, with Box Handles—																											
		No.	000	00	0	1	2	3	4	5	6																		
		In.	6x10	6½x10½	6½x11	7x11½	7½x12	8x12½	8½x13	9x14	9½x14½																		
		Per doz.	80/0	81/0	82/0	83/0	84/0	86/0	88/0	41/0	44/0																		
	33	LONDON TREADED SPADES, Solid Cast Steel, same Sizes as 32, 8/0 per doz. extra, gross.																											
	33A	Ditto	ditto	Rivetted Steel,	ditto	8/0	ditto																						
	34	TAPER THICK TOP SPADES.... <table><tr><td>No.</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>In.</td><td>7x6x11</td><td>7½x6½x11½</td><td>8x7x12</td><td>8½x7½x12½</td><td>9x8x13</td></tr><tr><td>Per doz.</td><td>82/0</td><td>84/0</td><td>86/0</td><td>88/0</td><td>40/0</td></tr></table>										No.	0	1	2	3	4	In.	7x6x11	7½x6½x11½	8x7x12	8½x7½x12½	9x8x13	Per doz.	82/0	84/0	86/0	88/0	40/0
No.	0	1	2	3	4																								
In.	7x6x11	7½x6½x11½	8x7x12	8½x7½x12½	9x8x13																								
Per doz.	82/0	84/0	86/0	88/0	40/0																								

EXTRAS, NET.

Long Strap, 2/0 per doz. ; Side Strap, 2/0 per doz. ; Rivetted Eye, 2/0 per doz. extra.
 Strapped Treads, 2/0 per doz. ; Steel Top Tools, 2/0 per doz. extra.
 Bright Spades and Shovels, 4/0 per doz. ; Long Trees, 2/0 per doz., for every 4 in. extra.
 Ground Bottoms, 1/0 per doz. ; Back Straps, 6/0 per doz. extra.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.



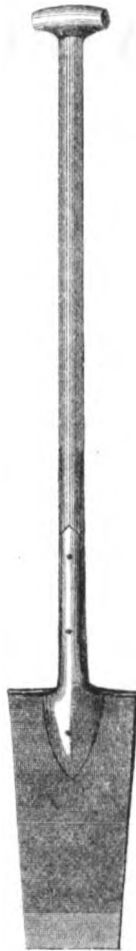
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26



27



28



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31A



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33A



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THE ILLUSTRATED SHEFFIELD LIST.

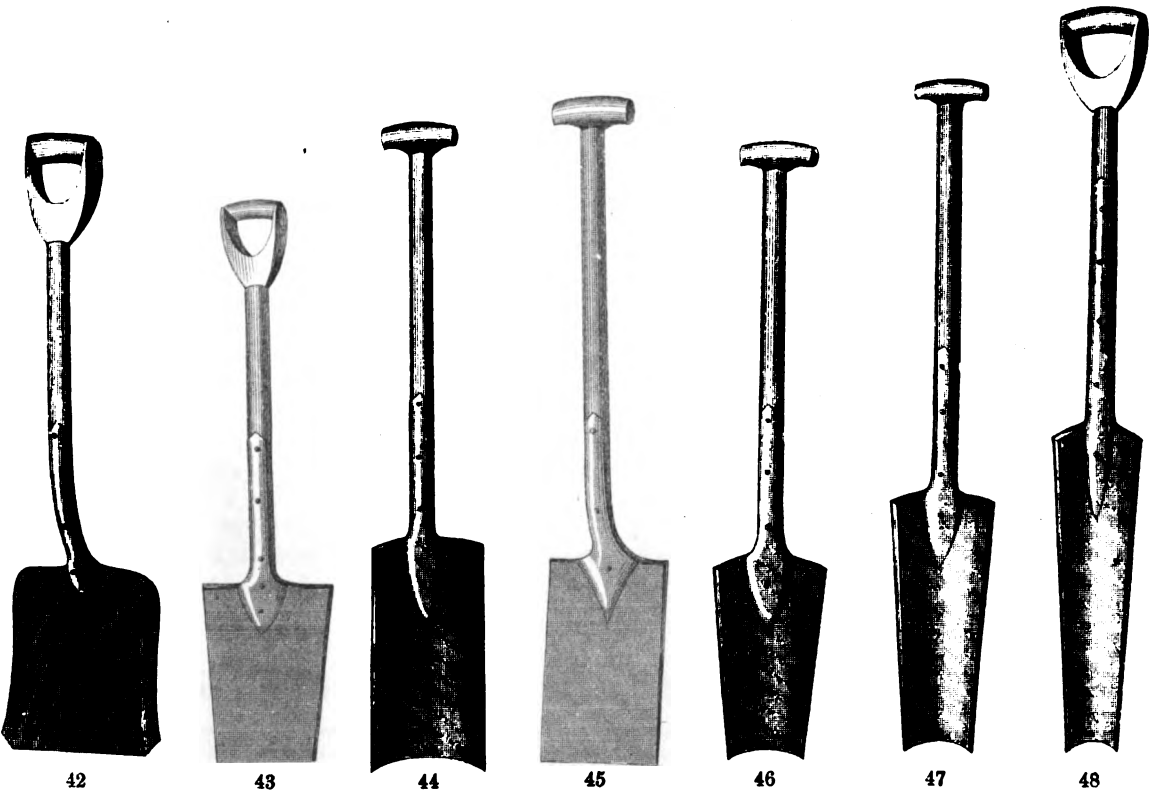
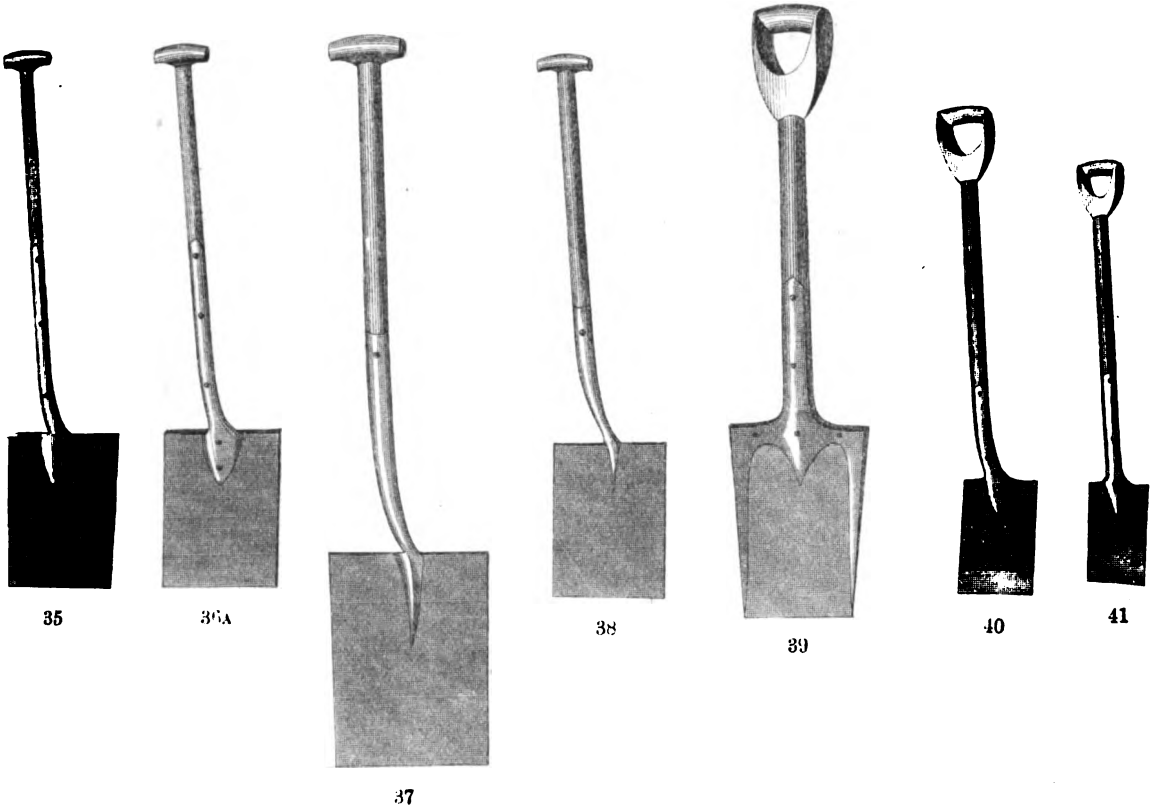
EDWARD BROOKES.

SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.		No.	0	1	2	3	4
			In.	7x10 $\frac{3}{4}$	7 $\frac{1}{2}$ x11 $\frac{1}{2}$	8x12	8 $\frac{1}{2}$ x12 $\frac{1}{2}$	9x13
	35	THICK TOP GARDEN SPADES	Per doz.	32/0	34/0	36/0	38/0	40/0
	36	Ditto ditto Solid Steel, 8/0 per doz. extra, gross.						
	36A	Ditto ditto Rivetted Steel, 8/0 ditto						
			No.	00	0	1	2	3
			In.	8x11	8 $\frac{1}{2}$ x11 $\frac{1}{2}$	8 $\frac{3}{4}$ x11 $\frac{1}{2}$	9x12	9 $\frac{1}{2}$ x12 $\frac{1}{2}$
	37	CHESHIRE SOCKET SPADES..	Per doz.	38/0	40/0	42/0	44/0	46/0
	38	Ditto ditto Solid Steel, same Sizes as No. 37, 8/0 per doz. extra, gross.						
			No.	00	0	1	2	3
			In.	7 $\frac{3}{4}$ x6x11	8 $\frac{1}{2}$ x6 $\frac{1}{2}$ x11	9x7x12	9 $\frac{1}{2}$ x7 $\frac{1}{2}$ x12	9 $\frac{3}{4}$ x8x13
	39	NORFOLK AND ESSEX SPADES, Black...	Per doz.	38/0	38/0	40/0	42/0	44/0
			No.	00	0	1	2	3
			In.	4 $\frac{1}{2}$ x7 $\frac{1}{2}$	5x8	5 $\frac{1}{2}$ x8 $\frac{1}{2}$	6x9	6 $\frac{1}{2}$ x10
	40	LADIES' SPADES, Ground Bottoms	Per doz.	20/0	22/0	24/0	26/0	28/0
			In.		4x6 $\frac{1}{2}$		4 $\frac{1}{2}$ x7	5x7 $\frac{1}{2}$
	41	TOY SPADES	Per doz.		18/0		20/0	22/0
	42	AMERICAN SPADES, Half Bright, Cast Steel, Double Rivetted Eye Trees, Square Mouth—						
			No.	1	2	3	4	
			In.	7x11 $\frac{1}{2}$	7 $\frac{1}{2}$ x12	8x12 $\frac{1}{2}$	8 $\frac{1}{2}$ x13	
			Per doz.	44/0	46/0	48/0	50/0	
	43	IMPERIAL SCOTCH SPADES, Steeled, Ground, 8 in. Front—						
			No.	1	2	3	4	
			In.	7x6 $\frac{1}{2}$ x11 $\frac{1}{2}$	7 $\frac{1}{2}$ x7x12	8x7 $\frac{1}{2}$ x12 $\frac{1}{2}$	8 $\frac{1}{2}$ x8x13	
			Per doz.	40/0	42/0	44/0	46/0	
DRAINING TOOLS, &c.								
			No.		1	2	3	
			In.		6x11 $\frac{1}{2}$	6 $\frac{1}{2}$ x12	7x12 $\frac{1}{2}$	
	44	GRAFTING TOOLS	Per doz.		34/0	36/0	38/0	
	44A	Ditto ditto Cast Steel Face, 8/0 per doz. extra, gross.						
			In.		6 $\frac{1}{2}$ x11	7 $\frac{1}{2}$ x11 $\frac{1}{2}$	7 $\frac{3}{4}$ x13	
	45	WATER FURROW SHOVELS	Per doz.		34/0	36/0	38/0	
			In.		6x4 $\frac{1}{2}$ x13 $\frac{1}{2}$	6 $\frac{1}{2}$ x5x14	7x5 $\frac{1}{2}$ x14 $\frac{1}{2}$	
	46	SOUGHING SPADES	Per doz.		36/0	38/0	40/0	
	46A	Ditto ditto Cast Steel Faced, 8/0 per doz. extra, gross.						
			In.		6x4x17	6x4 $\frac{1}{2}$ x18	7x5x18 $\frac{1}{2}$	
	47	SOUGHING TOOLS	Per doz.		42/0	44/0	48/0	
	47A	Ditto ditto if with Cast Steel Face, 8/0 per doz. extra, gross.						
			No.		1	2	3	
			In.		4 $\frac{1}{2}$ x8 $\frac{1}{2}$ x18	5x4x19	5 $\frac{1}{2}$ x4 $\frac{1}{2}$ x20	
	48	DEEP TOOLS	Per doz.		50/0	52/0	54/0	
	48A	Ditto if with Cast Steel Face, 9/0 per doz. extra, gross.						

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ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

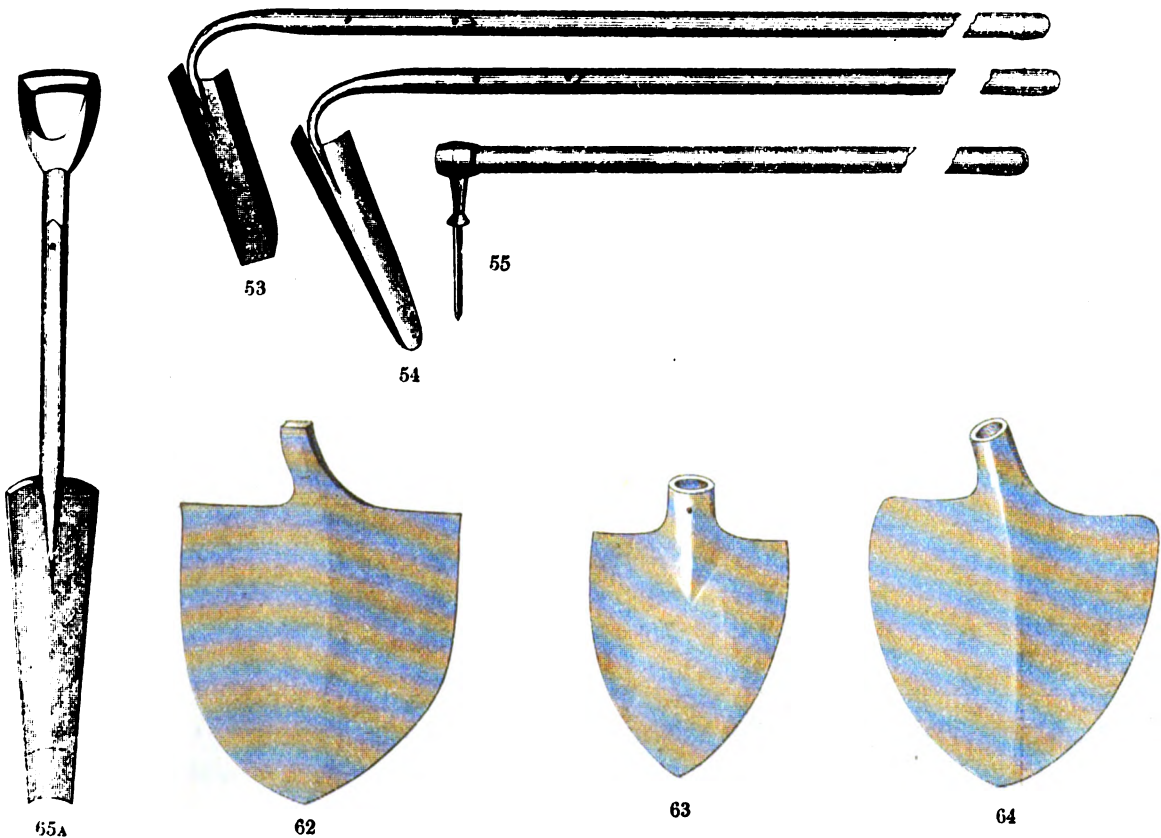
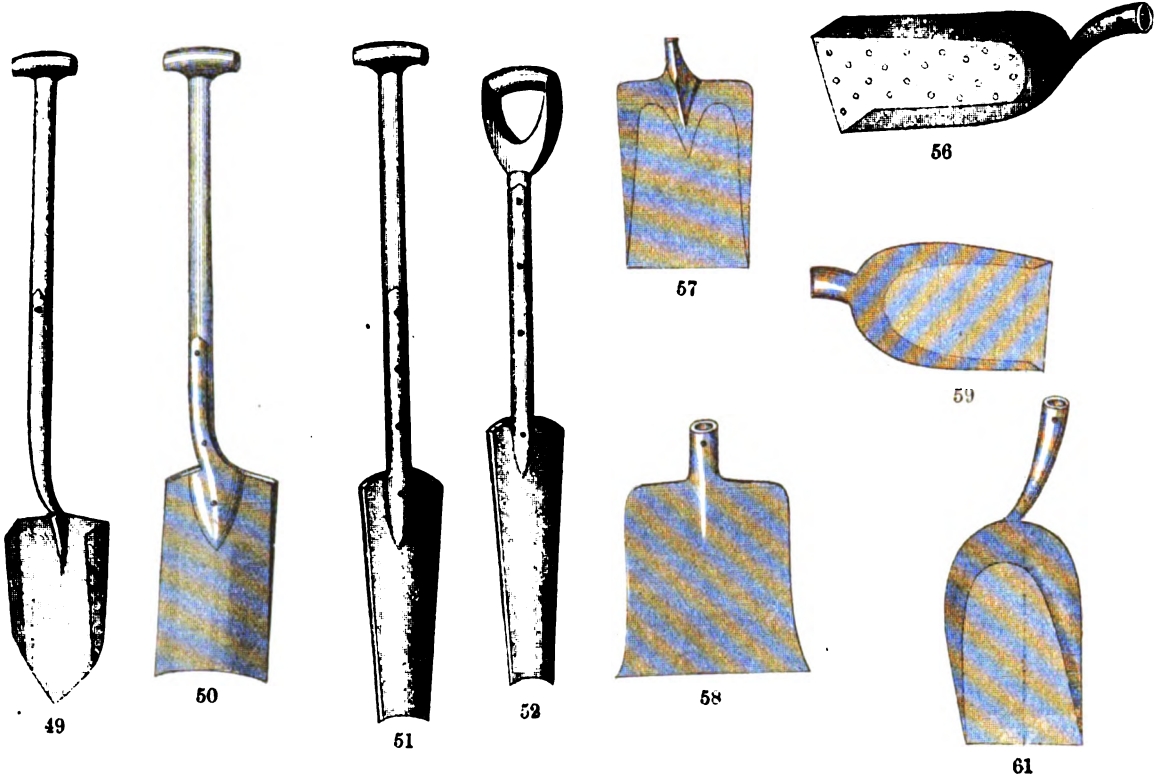
THE ILLUSTRATED SHEFFIELD LIST.

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SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.	DRAINING TOOLS, &c.									
		No.	1	2	3						
	49	MUD SHOVELS..... Per doz. 34/0 36/0 38/0									
	49A	Ditto if with Cast Steel Face, 8/0 per doz. extra, gross.									
		No.	1	2	3						
		In.	6x7x11½	6½x7½x12	6½x8x12½						
	50	FLOATING TOOLS Per doz. 32/0 34/0 36/0									
	50A	Ditto ditto if with Cast Steel Face, 12/0 per doz. extra, gross.									
		No.	1	2	3						
		In.	5½x3½x14½	5½x3½x15	6x4x15½						
	51	POST TOOLS Per doz. 44/0 46/0 48/0									
	51A	Ditto if Cast Steel Faced, 12/0 per doz. extra, gross.									
		No.	1	2	3						
		In.	4½x2½x17	4½x3x17	4½x3½x18						
	52	STRONG BOTTOMING TOOLS..... Per doz. 50/0 52/0 54/0									
		3	3½	4 in. wide.							
	53	FLAT SCOOPS Per doz. 34/0 37/0 40/0									
		2½	3	3½ in. wide.							
	54	DRAINING HOES..... Per doz. 32/0 34/0 36/0									
	55	DRAIN PIPE LAYERS 24/0 per doz.									
	56	PIERCED MUD SHOVELS per cwt., het.									
	57	PUDDLERS' BITS, Steeled "									
	58	DUST SHOVEL BITS "									
	59	FIRE SHOVEL PANS..... "									
	60	Ditto ditto with Shanks "									
	61	SOCKET PAN SHOVELS, Iron "									
	61A	Ditto ditto Solid Steel..... "									
	62	THROWING OFF ditto "									
	63	IRON MINERS' SHOVELS "									
	63A	Ditto ditto Steel Pointed "									
	63B	Ditto ditto Solid Steel "									
		No.	000	00	0	1	2	3	4	5	6
		In.	8½x9½	9x10	9½x10½	10x11	10½x11½	11x12	11½x12½	12x13	12½x13½
	64	BRISTOL SHOVELS.. Per doz.									
			18	20	22	24	26 in.				
	65A	SOLID STRAP DEEP TOOLS, Cast Steel Face Per doz. 60/0 63/0 66/0 69/0 72/0									

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THE ILLUSTRATED SHEFFIELD LIST.

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SPADES AND SHOVELS, &c.—Continued.

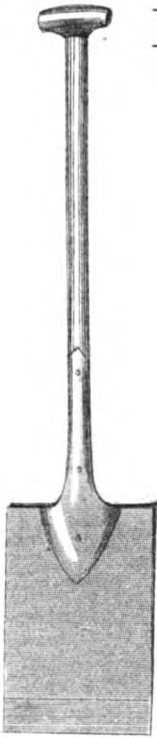
Dis- count.	No.				
	65	COKE FILLERS, Cast Steel Teeth—Per Tooth			
		No. In.	1 6½ × 5½ × 13	2 7 × 6 × 14	3 7½ × 6½ × 15
	65B	CAST STEEL FACE, RIBBED IRISH SPADE..	Per doz.	42/0	44/0 46/0
	66	NORTH OF ENGLAND COAL SHOVEL, Square Nose, 14 × 18 in., 56/0 per doz.			
	67	Ditto	ditto	Solid Steel, 14 × 18 in., 65/0	„
	68	SQUARE COAL SHOVELS, 18 × 13 in., 40/0; 14 × 14 in., 44/0 per doz.			
	69	Ditto	ditto	Solid Steel, 13 × 13 in., 54/0; 14 × 14 in., 60/0 per doz.	
		No. In.	1 15 × 15	2 16 × 16	3 17 × 17
	70	NORTH OF ENGLAND PAN SHOVELS, Pointed..	Per doz.	50/0	54/0 56/0
	71	Ditto	ditto	ditto	Solid Steel.. „ 58/0 62/0 66/0
		If without Handles, 6/0 per doz. less, gross.			
	71A	COKE FILLERS, Solid Steel, with Crutch Tree, 10 prongs, 156/0; 12 prongs, 180/0; 14 prongs, 204/0; 15 prongs, 216/0 per doz.			
	71B	COKE FILLERS, American Pattern, Solid Steel, Eye Tree, 10 prongs, 160/0; 12 prongs, 186/0; 14 prongs, 210/0; 15 prongs, 222/0 per doz.			
		No. In.	2 7½ × 12	3 8½ × 12½	4 8¾ × 13
	147	CRUTCH HANDLE CAPE SPADES	Per doz.	35/9	38/0 40/3
		No. In.	1 7½ × 7½ × 11	2 7¾ × 8 × 11½	3 8½ × 8½ × 12
	148	HEREFORD SPADES, Half Bright	Per doz.	40/0	42/6 44/9
	148A	Ditto	ditto	All Bright	„ 44/0 46/6 48/9
			11	12	13 14 in.
	149	BRISTOL STREET SOCKET SHOVELS, Steeled ..	Per doz.	41/6	44/0 46/3 48/6
	120	CORN SHOVELS, 10½ × 13 × 15½ in., 47/0 per doz.			
	150A	Ditto	ditto	Galvanized, 55/9 per doz.	

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65B



147



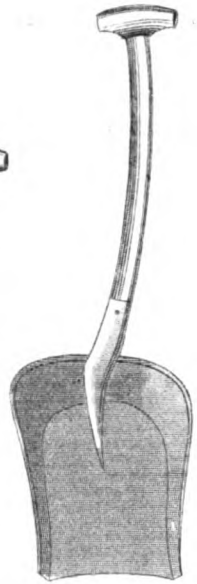
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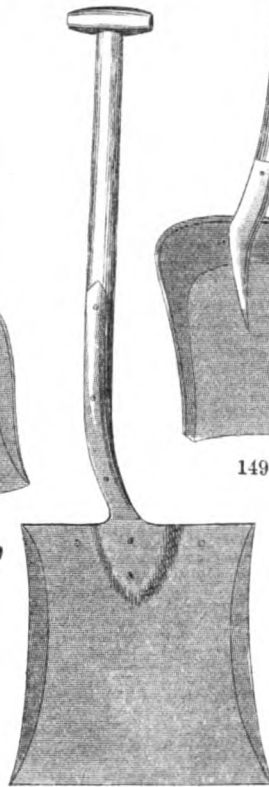
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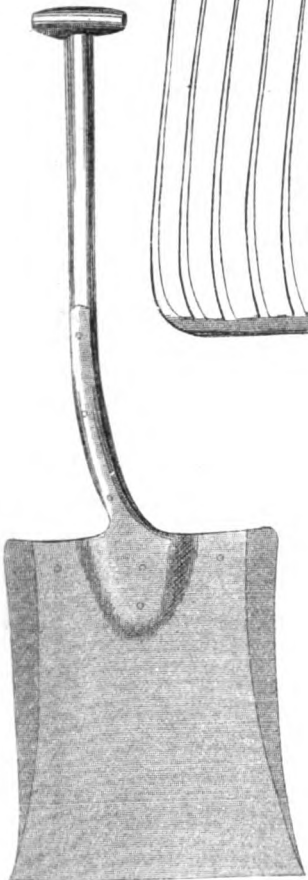
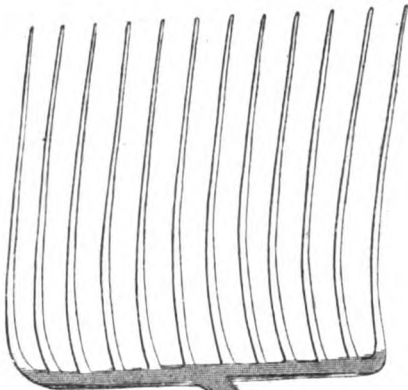
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149



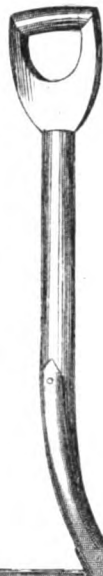
68 & 69



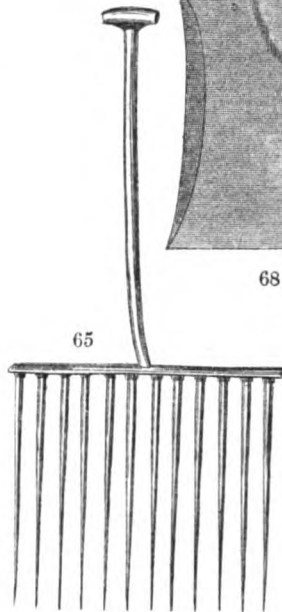
66 & 67



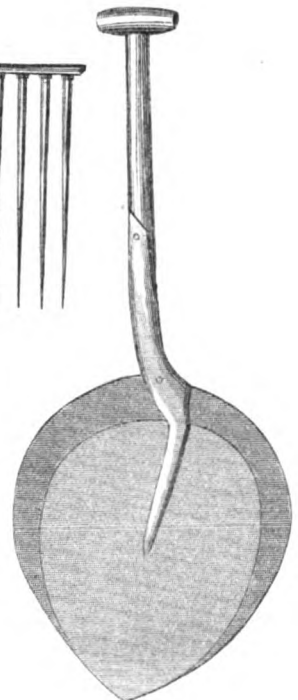
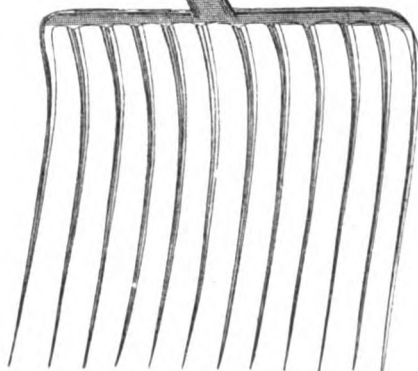
71A



71B



65



70 & 71

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THE ILLUSTRATED SHEFFIELD LIST.

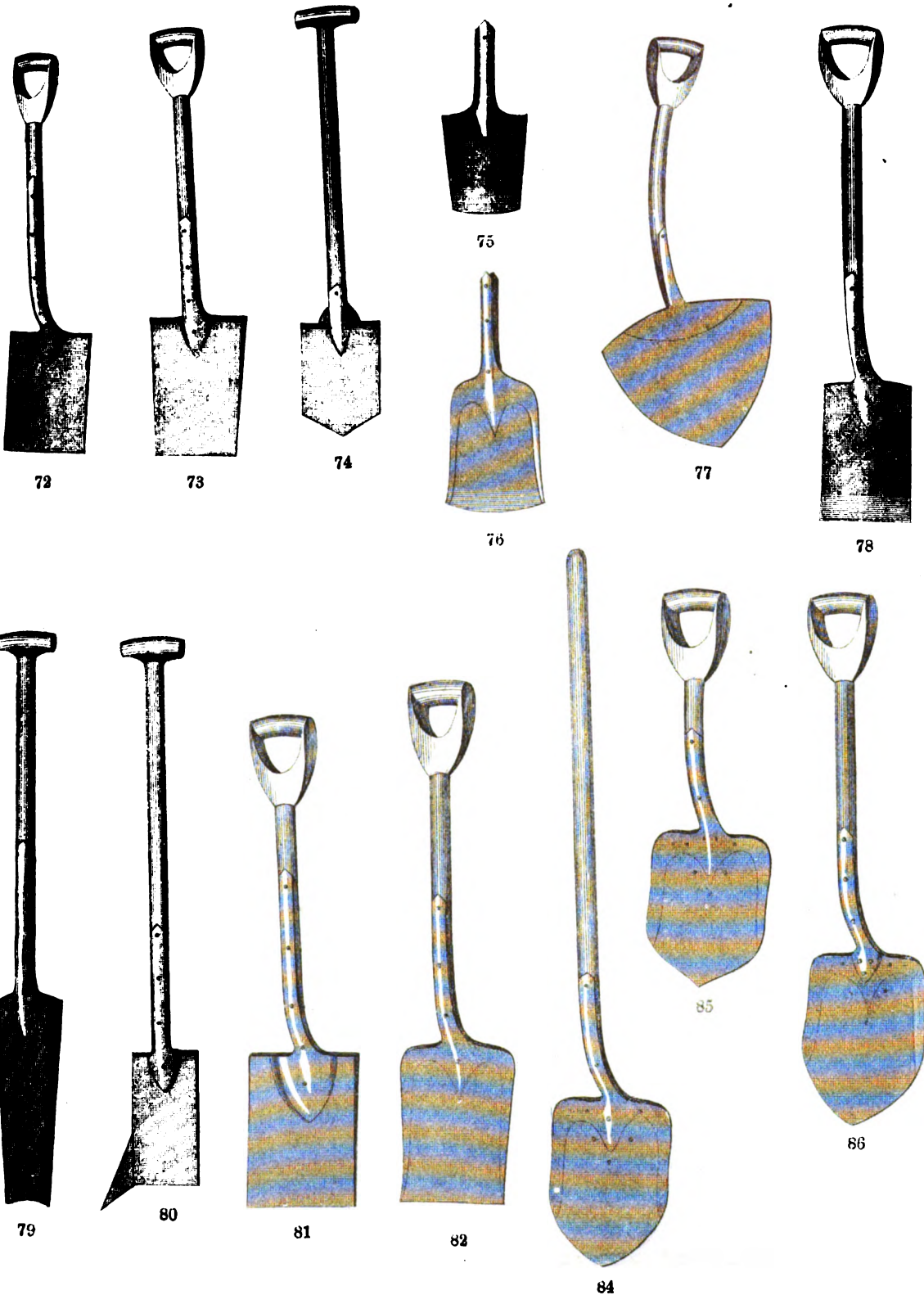
EDWARD BROOKES.

SPADES AND SHOVELS, &c.—Continued.

No. count.	No.											
72	AUSTRALIAN AGRICULTURAL SPADES, BEST CAST STEEL, Extra Long Strap, Side Strap, Treaded, Ribbed, Ground Bottom, Rivetted Eye -											
		No.	1	2	3	4						
		In.	7 × 11½	7½ × 12	8 × 12½	8½ × 13						
		Per doz.	48/0	50/6	53/0	55/6						
		No.	1	2	3	4	5					
		In.	7 × 6½ × 11½	7½ × 7 × 11½	8 × 7½ × 12½	8½ × 8 × 13	8¾ × 8½ × 13½					
73	SCOTCH RIBBED SPADES.. Per doz. 34/0 36/0 38/0 40/0 42/0											
74	JAVA SPADES, or PATGOLS, Diamond Point, Solid Cofer Tree, 8 × 11 in., 84 9 per doz.											
75	RUSSIAN SHOVELS, without Handles, 8 × 7 × 10 in., 24/0 per doz.											
76	SAPPERS' ditto ditto 8 × 9½ × 13 in., 28/0 ..											
		No.	15	16	17	18 in. wide.						
77	COAL TRIMMERS' SHOVELS, with Leather Guards .. Per doz. 52/0 54/0 56/0 58/0											
		No.	1	2	3							
		In.	7 × 12½	7½ × 13	8 × 13½							
78	WATER FURROW SHOVELS, Box Handles..... Per doz. 34/0 36/0 38/0											
78A	Ditto ditto if with Cast Steel Face, 8/0 per doz. extra, gross.											
79	As 51											
		No.	1	2	3							
		In.	11½ × 5½	12 × 6	12½ × 6½							
80	PEAT CUTTING SPADE, CAST STEEL FACE, RIGHT OR LEFT Per doz. 65/6 68/0 70/9											
81	AUSTRALIAN LONG STRAP SPADE, CAST STEEL, BRIGHT—											
		No.	00	0	1	2	3					
		In.	6½ × 10½	7 × 11	7½ × 11½	8 × 12	8½ × 12½					
		Per doz.	48/0	50/6	53/0	55/6	58/0					
81A	Ditto ditto if with Side Strap, Treaded, 4/6 per doz. extra, net.											
82	TAPER SHOVELS, Long Straps—											
		No.	0	1	2	3	4	5				
		In.	12 × 9 × 8	12½ × 9½ × 8½	13 × 10 × 9	13½ × 10½ × 9½	14 × 11 × 10	14½ × 11½ × 10½				
		Per doz.	35/9	36/9	38/0	40/3	42/6	44/9				
84	AMERICAN SHOVELS, ROUND OR SQUARE MOUTH, all Bright, Cast Steel, with Long Knob Handles—											
		In.	9 × 11½	9½ × 12	10 × 12½	10½ × 13						
		Per doz.	38/0	39/0	40/0	42/0						
85	AMERICAN WELL SINKERS' SHOVELS, all Bright, Cast Steel, Double Rivetted Eye Trees—											
		No.	1	2	3	4						
		In.	9 × 11½	9½ × 12	10 × 12½	10½ × 13						
		Per doz.	38/0	39/0	40/0	42/0						
86	AMERICAN SHOVELS, ROUND OR SQUARE MOUTH, Half-bright, Cast Steel, Double Rivetted Eyes—											
		No.	1	2	3	4						
		In.	9 × 11½	9½ × 12	10 × 12½	10½ × 13						
		Per doz.	38/0	39/0	40/0	42/0						

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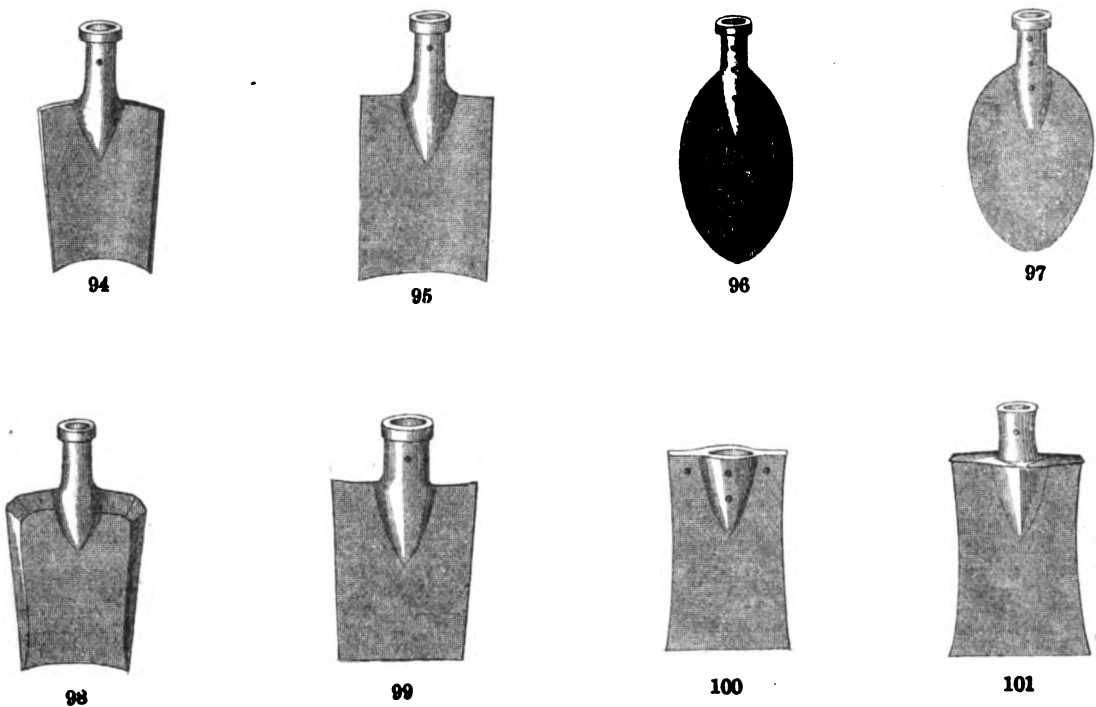
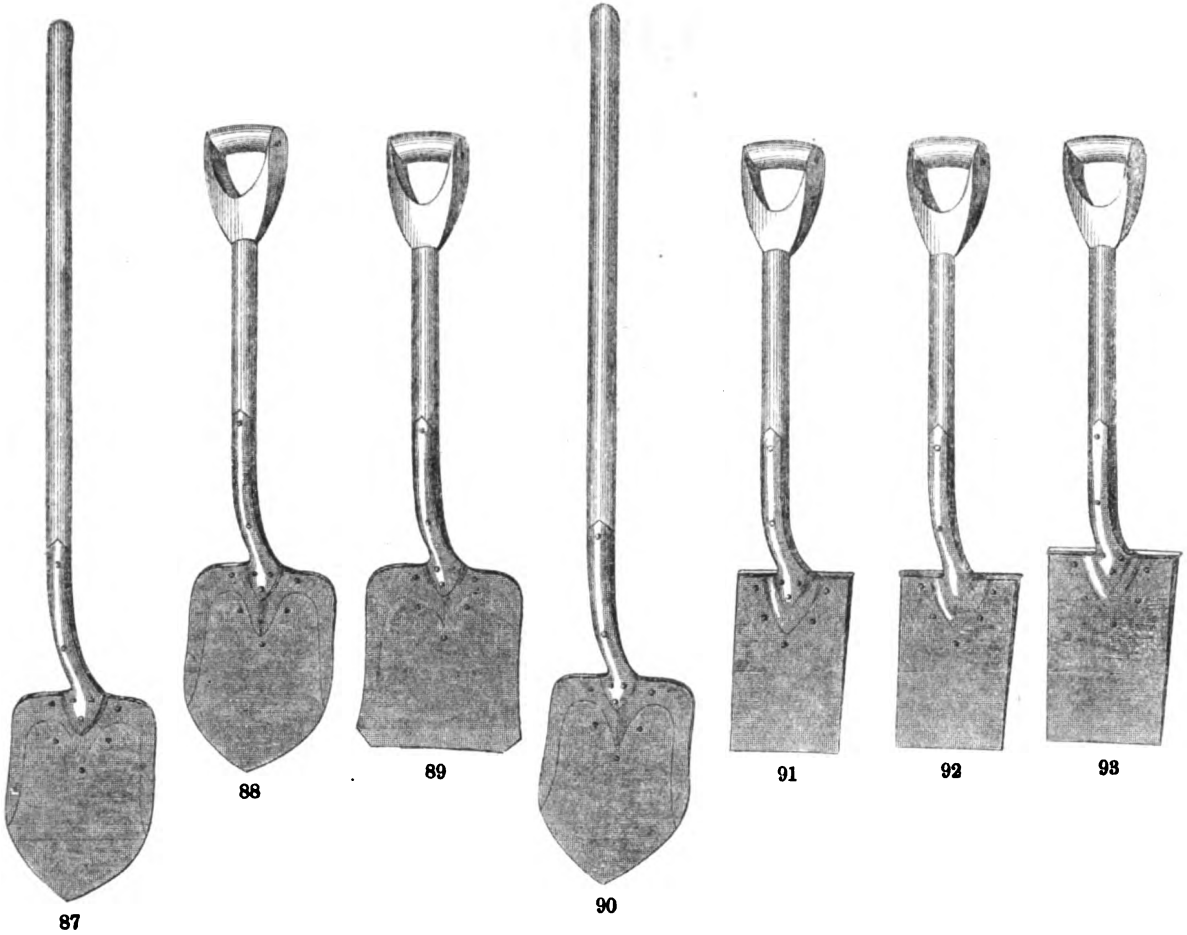
THE ILLUSTRATED SHEFFIELD LIST.

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SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.	
	87	AMERICAN SHOVELS, Round Mouth, Half Bright, with Long Knob Handles—
		No. 1 2 3 4
		In. $9 \times 11\frac{1}{2}$ $9\frac{1}{2} \times 12$ $10 \times 12\frac{1}{2}$ $10\frac{1}{2} \times 13$
		Per doz. 40/0 41/0 42/0 44/0
	88	EXCHANGE AMERICAN SHOVELS, Round Mouth, Rivetted Iron Plates, Ground Edges—
		No. 1 2 3 4
		In. $9 \times 11\frac{1}{2}$ $9\frac{1}{2} \times 12$ $10 \times 12\frac{1}{2}$ $10\frac{1}{2} \times 13$
		Per doz. 33/6 35/9 37/0 40/3
		Rivetted Eyes, 2/0 per doz. extra, net; Double Eyes, 4/0 per doz. extra, net.
	89	EXCHANGE AMERICAN SHOVELS, Square Mouths, Rivetted Iron Plates, Ground Edges—
		No. 1 2 3 4
		In. $9 \times 11\frac{1}{2}$ $9\frac{1}{2} \times 12$ $10 \times 12\frac{1}{2}$ $10\frac{1}{2} \times 13$
		Per doz. 33/6 35/9 37/0 40/3
	90	EXCHANGE AMERICAN SHOVELS, Rivetted Iron Plates, Long Knob Handles, Ground Edges—
		No. 1 2 3 4
		In. $9 \times 11\frac{1}{2}$ $9\frac{1}{2} \times 12$ $10 \times 12\frac{1}{2}$ $10\frac{1}{2} \times 13$
		Per doz. 37/0 40/3 42/3 44/9
	91	AMERICAN SPADES, All Bright, Cast Steel, Double Rivetted Eye Trees—
		No. 1 2 3 4
		In. $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$ $8\frac{1}{2} \times 13$
		Per doz. 38/0 39/0 40/0 42/0
	92	AMERICAN SPADES, Half Bright, Cast Steel, Double Rivetted Eye Trees—
		No. 1 2 3 4
		In. $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$ $8\frac{1}{2} \times 13$
		Per doz. 40/6 41/6 43/6 44/9
	93	EXCHANGE AMERICAN SPADES, Rivetted Iron Plates, Ground Edges—
		No. 1 2 3 4
		In. $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$ $8\frac{1}{2} \times 13$
		Per doz. 33/6 35/9 37/0 40/3
	94	DEMERARA SOCKET TRENCHING SHOVELS—
		No. 000 00 0 1 2 3 4
		In. $5 \times 9\frac{1}{2}$ $5\frac{1}{2} \times 10$ $6 \times 10\frac{1}{2}$ $6\frac{1}{2} \times 11$ $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$
		Per doz. 14/0 15/0 19/6 21/6 23/9 26/0 28/0
	95	DEMERARA SOCKET TRENCHING SPADES—
		No. 0 1 2 3 4 5
		In. $6 \times 10\frac{1}{2}$ $6\frac{1}{2} \times 11$ $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$ $8\frac{1}{2} \times 13$
		Per doz. 19/6 21/6 23/9 26/0 28/0 30/0
		If Treaded, 2/0 per doz. extra; if Ground, 1/0; if all Bright, 6/0 per doz. extra, net.
		No. 0 1 2 3 4
		In. $6\frac{1}{2} \times 10\frac{1}{2}$ $6\frac{3}{4} \times 11$ $7\frac{1}{2} \times 11\frac{1}{2}$ $7\frac{3}{4} \times 12$ $8\frac{1}{2} \times 12\frac{1}{2}$
	96	DEMERARA SPOON SHOVELS, Double Back.. Per doz. 19/6 21/6 23/9 26/0 28/0
	97	ditto ditto Open Back .. „ 13/0 15/0 17/8 19/6 21/6
	98	SQUARE SOCKET SHOVELS, Double Back, with Hole—
		No. 0 1 2 3 4
		In. 8×10 $8\frac{1}{2} \times 10\frac{1}{2}$ 9×11 $9\frac{1}{2} \times 11\frac{1}{2}$ 10×12
		Per doz. 19/6 21/6 23/9 26/0 28/0
		No. 1 2 3
		In. $7 \times 11\frac{1}{2}$ $7\frac{1}{2} \times 12$ $8 \times 12\frac{1}{2}$
	99	AMERICAN SPADES, Bright and Polished Plain Top,.... Per doz. 39/0 41/0 43/0
		If Black and Ground Bottoms, 10/0 per doz. less, gross.
	100	STRAIGHT SIDED SOLID HEADED SPADES, Half Bright .. 26/0 28/0 30/0
		If Bright and Polished, 10/0 per doz. extra, gross.
	101	HOLLOW SIDED SOCKET SPADE, Dove-tail Treaded .. 32/6 34/6 36/9
		Half Bright and Polished, 10/9 per doz. extra, gross.

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THE ILLUSTRATED SHEFFIELD LIST.

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SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.																			
	102	STRAIGHT SIDED, SOLID HEADED, POLISHED AMERICAN SOCKET SPADES—																		
		<table><tr><td>No.</td><td>1</td><td>2</td><td>3</td></tr><tr><td>In.</td><td>7 × 11</td><td>7½ × 11½</td><td>8 × 12</td></tr><tr><td>Per doz.</td><td>43/0</td><td>45/3</td><td>47/6</td></tr></table>	No.	1	2	3	In.	7 × 11	7½ × 11½	8 × 12	Per doz.	43/0	45/3	47/6						
No.	1	2	3																	
In.	7 × 11	7½ × 11½	8 × 12																	
Per doz.	43/0	45/3	47/6																	
		If Black and Ground Bottoms, 10/0 per doz. less, gross.																		
103	SOCKET SPADES, Hollow Sides, Dovetail, Treaded, Polished	„ 43/0 45/3 47/6																		
		If Black and Ground Bottoms, 10/0 per doz. less, gross.																		
104	LIMA SPADES	<table><tr><td>Weight</td><td>3</td><td>3½</td><td>4</td><td>4½</td><td>5 lbs. each.</td></tr><tr><td>Per doz.</td><td>15/0</td><td>16/3</td><td>17/6</td><td>18/6</td><td>19/9</td></tr></table>	Weight	3	3½	4	4½	5 lbs. each.	Per doz.	15/0	16/3	17/6	18/6	19/9						
Weight	3	3½	4	4½	5 lbs. each.															
Per doz.	15/0	16/3	17/6	18/6	19/9															
		If Cast Steel Face and Blued, 11/0 per doz. extra, gross.																		
105	IQUIQUE SHOVELS.....	<table><tr><td>Weight</td><td>2</td><td>2½</td><td>3</td><td>3½</td><td>4 lbs. each.</td></tr><tr><td>Per doz.</td><td>18/3</td><td>14/3</td><td>15/6</td><td>16/6</td><td>17/9</td></tr></table>	Weight	2	2½	3	3½	4 lbs. each.	Per doz.	18/3	14/3	15/6	16/6	17/9						
Weight	2	2½	3	3½	4 lbs. each.															
Per doz.	18/3	14/3	15/6	16/6	17/9															
		If Steeled and Blued, 11/6; if Cast Steel, ¾ Bright and Blued, 19/9 per doz. extra, gross.																		
106	VALQUO SHOVEL BITS.....	<table><tr><td>Weight</td><td>4</td><td>4½</td><td>5 lbs. each.</td></tr><tr><td>Per doz.</td><td>16/6</td><td>16/6</td><td>17/9</td></tr></table>	Weight	4	4½	5 lbs. each.	Per doz.	16/6	16/6	17/9										
Weight	4	4½	5 lbs. each.																	
Per doz.	16/6	16/6	17/9																	
107	Ditto ditto Cast Steel, best American Blued or Japanned	„ 30/0 31/3 32/6																		
		Second Quality, Steeled and Blued, 3/6 per doz. less, gross.																		
108	CUSCO SPADES	<table><tr><td>Weight</td><td>2½</td><td>3</td><td>3½</td><td>4</td><td>4½</td><td>5</td><td>5½</td><td>6 lbs. each.</td></tr><tr><td>Per doz.</td><td>10/6</td><td>11/6</td><td>13/3</td><td>14/6</td><td>15/9</td><td>..</td><td>..</td><td>..</td></tr></table>	Weight	2½	3	3½	4	4½	5	5½	6 lbs. each.	Per doz.	10/6	11/6	13/3	14/6	15/9
Weight	2½	3	3½	4	4½	5	5½	6 lbs. each.												
Per doz.	10/6	11/6	13/3	14/6	15/9												
109	BISCAY SHOVELS, Long Bit, wide....	„ .. 13/0 14/6 15/9 16/9 18/0																		
110	Ditto ditto Narrow Bit	„ .. 13/0 14/6 15/9 16/9 18/0																		
111	CANETA SPADES	„ .. 16/3 17/6 18/6																		
		If Cast Steel and Blued, 12/9 per doz. extra, gross.																		
112	ICA SPADES.....	Per doz. 20/9 22/6 24/3																		
		If Cast Steel Face and Blued, 15/0 per doz. extra, gross.																		
113	OPEN SOCKET TACISAS, Steeled, 18/0 per doz.																			
114	TACISAS, with TANG, Steeled, 18/0; all Iron, 12/9 per doz.																			
115	DEMERARA SOUGHING SPADES, 4½ × 6 × 11 in., 23/0 per doz.																			
116	SOCKET DIGGING SPUDS, 18/6 per doz.																			
117	SOCKET SPUD SHOVELS, Sheet Iron, 5/9 per doz.																			

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EDWARD BROOKES.

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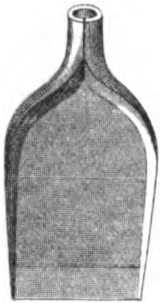
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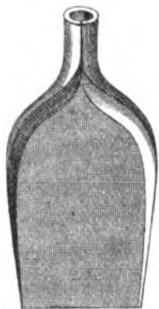
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105



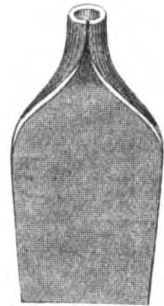
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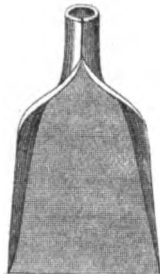
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109



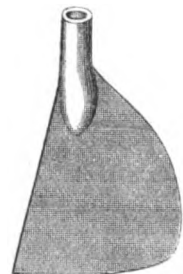
110



111



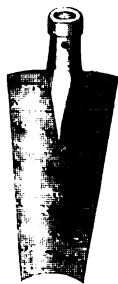
112



113



114



115



116



117

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

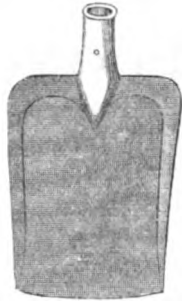
SPADES AND SHOVELS, &c.—Continued.

Dis- count.	No.					
	118	OPEN SOCKET SHOVELS, Hollow Back, 16/8 per doz.	No.	1	2	3
			In.	9×12	9½×12½	10×13
	119	OPEN SOCKET TAPER SHOVELS, Sheet Iron	Per doz.	16/8	17/6	18/6
	120	GERMAN SOCKET MINERS' SHOVELS, Open Front, Steeled and Ground, 27/9 per doz.				
	121	SOUTH AMERICAN SPUDS, Narrow, 2½ lbs. each; Common, 18/6; C.S. Faced, 15/0 per doz.				
	122	Ditto ditto Wide, 3 lbs. each; ditto 18/0; ditto 19/9 ..				
	123	HAYTIAN LONG SOCKET SPADES, Polished and Treaded, 8×6×12 in., 40/6 per doz.				
	124	SWEDISH SOCKET SPADES, 7×9×10½ in., 20/9 per doz.; if Steeled and Ground, 4/9 per doz. extra.				
	125	GERMAN OPEN SOCKET SPADES, Ground Bright all over, 9×7×11½ in., 40/6 per doz.	No.	0	1	2
			In.	9	6	10
	126	LIGHT GERMAN SPADES, OPEN SOCKET	Per doz.	13/0	14/0	15/0
			No.	0	1	2
			In.	9½×11½	10×12	10½×12½
	127	CORNISH MINING SHOVELS	Per doz.	16/8	17/6	18/6
		If Steeled, 4/0 per doz. extra, net.				
	128	CORNISH MINING SHOVELS, Steeled Face ..	80/0	32/6	34/9	37/0
		If Ground Backs, 3/0 per doz. extra, net.				
	129	DEVONSHIRE MINING SHOVELS	16/8	17/6	18/6	19/9
		If Steeled 4/0 per doz. extra, net.				
	130	IRISH MINING SHOVELS	16/8	17/6	18/6	19/9
		If Steeled, 4/9 per doz. extra, net.				
			No.	0	1	2
			In.	8½×11½	9×12	9½×12½
	131	CLOSE BACK SOCKET SHOVELS, RING'D..	Per doz.	20/9	23/0	25/6
	132	CLOSE SOCKET TAPER SHOVELS	20/9	23/0	25/6	27/9
			No.	1	2	3
			In.	6×10	6½×10½	7×11
	133	CAPE SOCKETS	Per doz.	16/8	18/6	20/9
						23/0

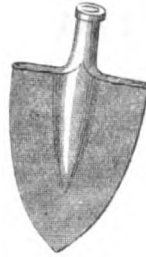
ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

EDWARD BROOKES.

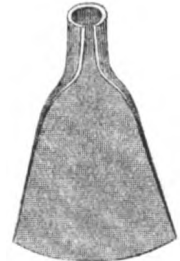
118



119



120



121



122



123



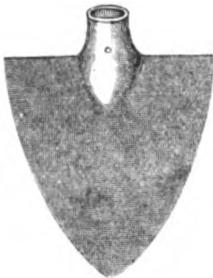
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125



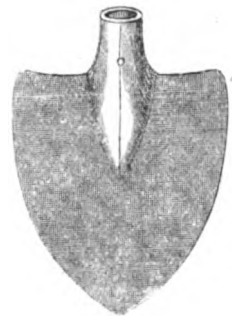
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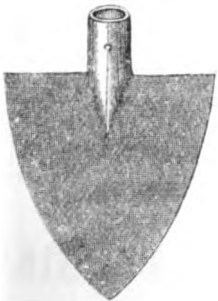
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128



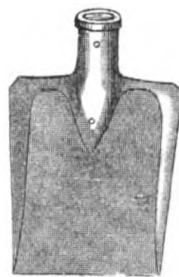
129



130



131



132



133

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

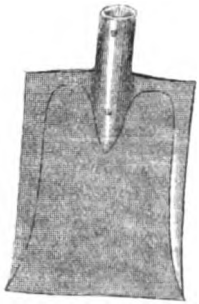
SPADES AND SHOVELS, &c.—Continued.

DIS- COUNT.	No.	No.	1	2	3	4			
		In.	9 × 12	9½ × 12½	10 × 13	10½ × 13½			
134	OPEN SOCKET SHOVELS	Per doz.	15/3	17/3	19/6	21/6			
		No.	1	2	3	4			
		Wide	7	7½	8	8½ in.			
135	COFFEE SPUDS	Per doz.	15/3	17/3	19/6	21/6			
		No.	1	2	3	4			
		Wide	8	8½	9	9½ in.			
136	ROUND SHOULDER OPEN SOCKET SPUDS	Per doz.	15/3	17/3	19/6	21/6			
137	CAST STEEL FACE NAVVIES' SHOVELS, Side Strap, Treaded—	No.	1	2	3	4			
		In.	9 × 12	9½ × 12½	10 × 13	10½ × 13½			
		Per doz.	51/6	53/9	56/0	58/3			
138	PIT NAVVIES' SHOVELS, or SINKING TOOLS, Short Handles, Ribbed—	No.	1	2	3	4			
		In.	10 × 11½	10½ × 12	11 × 12½	11½ × 13			
		Per doz.	42/6	44/9	47/0	49/3			
139	EXTRA LONG DOUBLE STRAP SOLID SOCKET SHOVELS, Round Mouth, Bright Cast Steel Faced, Rivetted Eye, Solid Cofer—	No.	1	2	3				
		In.	10½ × 12	11 × 12½	11½ × 13				
		Per doz.	81/6	83/9	86/0				
139A	EXTRA LONG DOUBLE STRAP SOLID SOCKET SHOVELS, Square Mouth, Bright Cast Steel Faced, Rivetted Eye, Solid Cofer—	No.	1	2	3				
		In.	9½ × 12	10 × 12½	10½ × 13				
		Per doz.	81/6	83/9	86/0				
140	CENTRE STRAP SOCKET GRAFTING TOOLS, Bright Cast Steel Faced, Rivetted Eyes, Solid Cofer—	No.	1	2	3				
		In.	12 × 6½	12½ × 7	13 × 7½				
		Per doz.	83/9	86/0	88/3				
141	EXTRA LONG DOUBLE STRAP SOLID SOCKET GRAFTING TOOLS, Bright Cast Steel Faced, Rivetted Eye, Solid Cofer—	No.	1	2	3				
		In.	12 × 6½	12½ × 7	13 × 7½				
		Per doz.	83/9	86/0	88/3				
		No.	2	3	4				
142	MARGEL SPADE EYE TREES	Per doz.	34/9	36/9	39/0				
143	FRENCH MINERS' SHOVELS, 50/0 per doz.	No.	2	3	4	5			
		In.	10 × 12½	10½ × 13	11 × 13½	11½ × 14			
144	COMMON ROUND MOUTH SHOVELS	Per doz.	35/9	38/0	40/3	42/6			
		No.	1	2	3	4			
		In.	7½ × 11½	8 × 12	8½ × 12½	9 × 13			
145	EYE TREE THICK TOP SPADES	Per doz.	40/3	42/6	44/9	47/0			
146	IRISH TURFING SPADES, Steeled and Ground, assorted Sizes—	9	10	11	12	13	14	15 in.	
		Per doz.	14/6	15/3	15/9	16/3	16/9	17/3	18/0

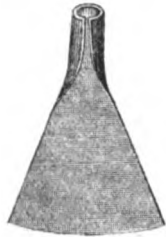
For No. 147 and forward, see page 000.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

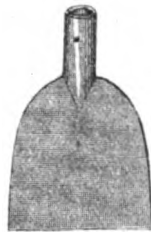
EDWARD BROOKES.



134



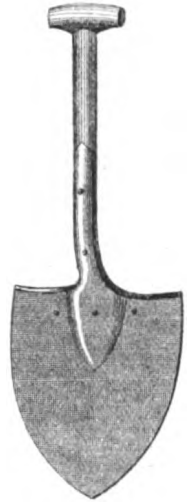
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136



137



138



139



144



145



140



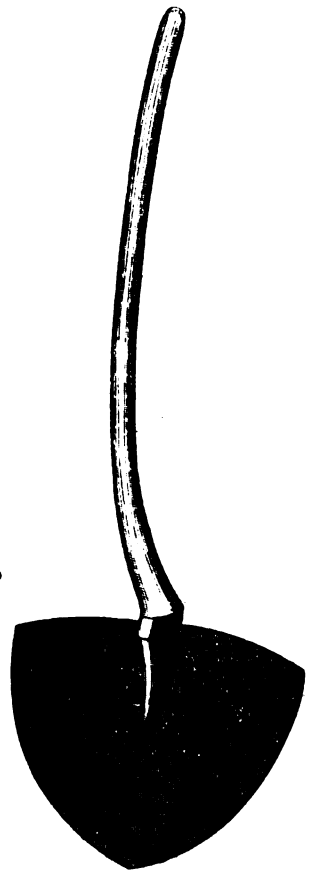
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146

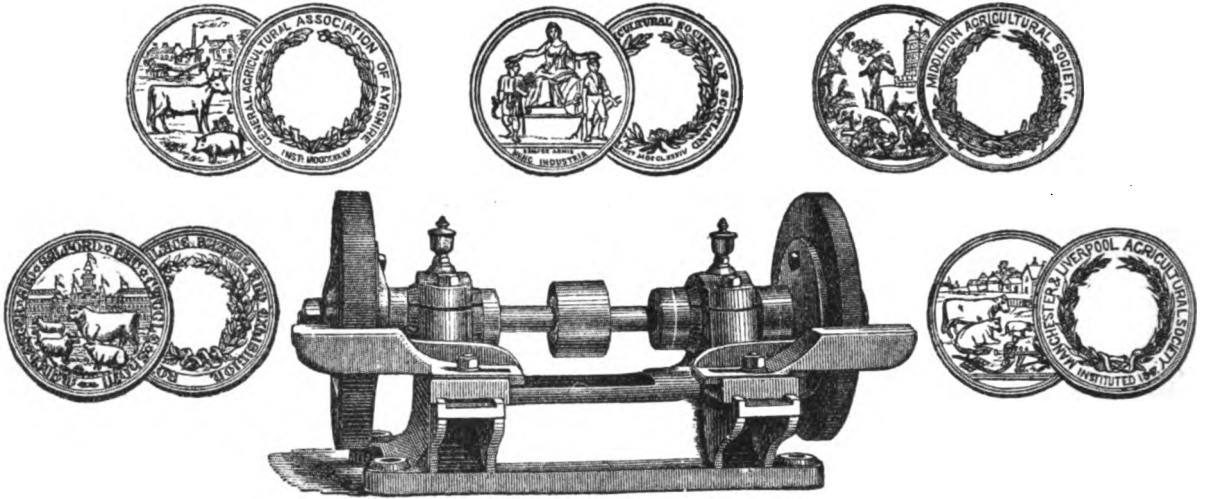


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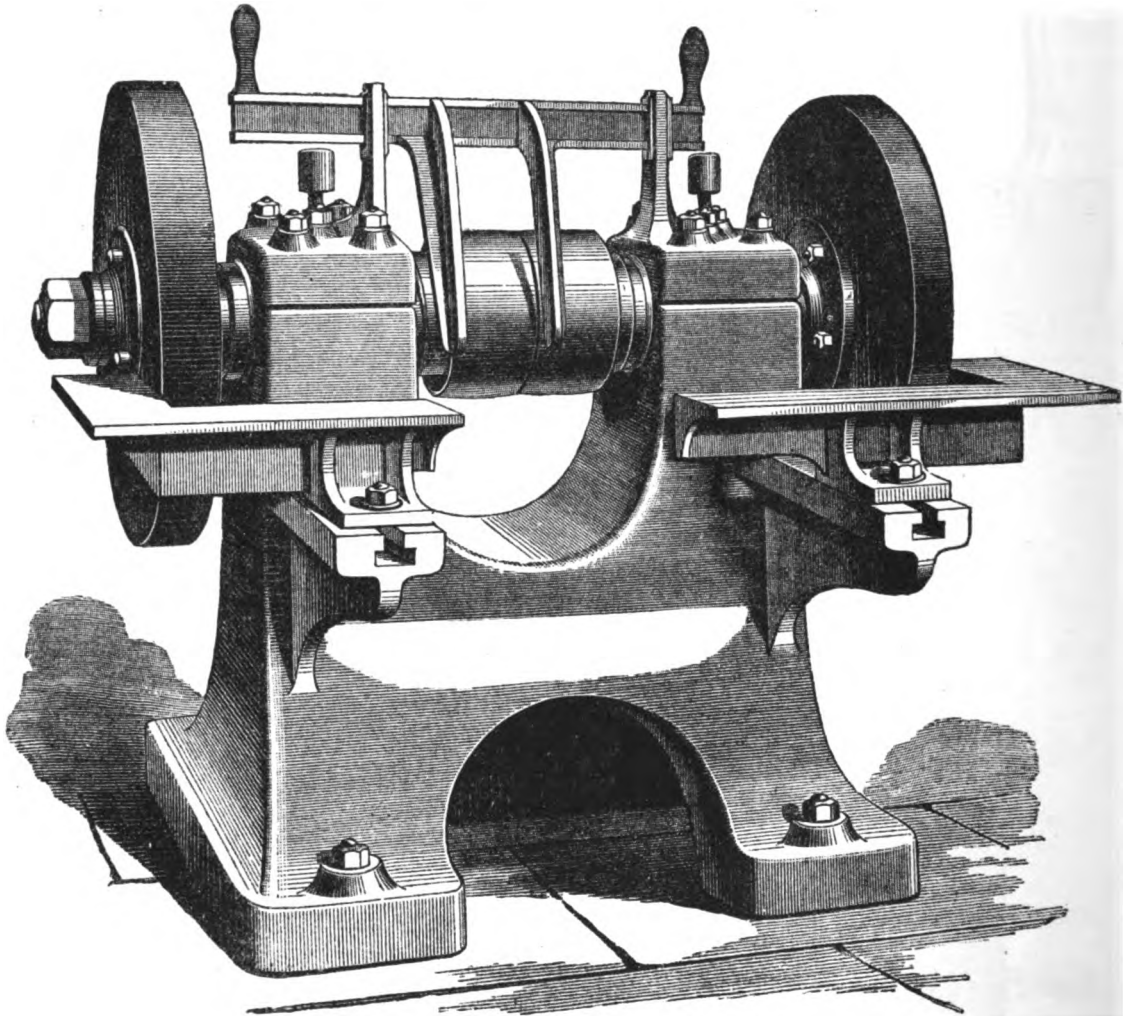
148

CONSOLIDATED EMERY WHEELS & EMERY WHEEL MACHINERY.



No. A MACHINE

Is fitted with $1\frac{1}{2}$ inch Steel Shaft, Extra Long Bearings, Lubricators, Adjustable Rests, Pulley, &c., and is mounted with two 12 inch Emery Wheels, one $1\frac{1}{2}$ inch thick, and one 1 inch thick. It is suitable for Fettling and Dressing Castings, also Filing up Wrought Iron Forgings, &c. £5 10s. If fitted with one 14 by 2, and one 14 by 1, wheels, £6 10s.



No. D MACHINE.

For Fettling and Dressing Castings and General Iron Work, with 8 inch Steel Shaft, Extra Long Bearings, Lubricators, Fast and Loose Pulleys, Strap Fork, Adjustable Rests, &c., complete, and fitted with two 36 inch. Emery Wheels, one 4 inches, and one $2\frac{1}{2}$ inches thick. £65. If with 28 inch. Wheels, £50.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

THE IMPROVED CONSOLIDATED EMERY WHEELS.

In ordering, please give size of hole for spindle, and what purpose the wheels are for. These wheels can be used either wet or dry, on the face or side, and their travelling speed should be from 4,000 to 6,000 surface feet per minute.

PRICE LIST.

THICKNESS.	DIAMETER.	PRICE.	THICKNESS.	DIAMETER.	PRICE.
$\frac{1}{4}$ and $\frac{3}{8}$ in.	3 in. and under 6 in.	2/0 per lb.	$\frac{1}{4}$ and $\frac{3}{8}$ in.	6 in. and upwards	1/0 per lb.
$\frac{1}{2}$ in. and above..	3 " " 6 "	1/6 "	$\frac{1}{2}$, $\frac{3}{4}$, and $\frac{5}{8}$ in. ...	6 " " "	1/0 "
$\frac{3}{8}$ in.	6 " " up to 16 "	1/6 "	$\frac{3}{4}$ and $\frac{5}{8}$ in.	6 " " "	1/0 "
$\frac{1}{8}$ in.	6 " " 18 "	1/6 "	1 in. up to 6 in. ...	6 " " "	1/0 "

APPROXIMATE WEIGHT IN LBS.

THICKNESS IN INCHES.

	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	3	3 1/8	3 1/4	4		
3	.004	.141	.189	.232	.378	.472	.567	.602	.750	.945	1.12	1.32	1.51	1.71	1.89	2.07	2.24	2.64	3.02	3
4	.108	.251	.335	.504	.67	.838	1.006	1.16	1.34	1.68	2.01	2.35	2.68	3.02	3.36	3.68	4.02	4.70	5.36	4
5	.262	.393	.525	.786	1.05	1.31	1.57	1.83	2.10	2.62	3.14	3.66	4.2	4.72	5.24	5.77	6.28	7.32	8.4	5
6	.377	.561	.755	1.12	1.51	1.88	2.26	2.64	3.02	3.75	4.52	5.29	6.04	6.77	7.5	8.3	9.04	10.58	12.08	6
7	.52	.77	1.03	1.54	2.06	2.57	3.09	3.64	4.12	5.15	6.18	7.28	8.24	9.26	10.3	11.33	12.36	14.56	16.48	7
8	.67	1.02	1.34	2.01	2.69	3.35	4.02	4.76	5.38	6.72	8.04	9.4	10.76	12.1	13.44	14.74	16.08	19.04	21.52	8
9	.85	1.27	1.70	2.55	3.4	4.25	5.10	5.95	6.8	8.6	10.24	11.91	13.61	15.4	17.2	18.71	20.41	23.82	27.2	9
10	1.05	1.57	2.1	3.14	4.2	5.25	6.3	7.35	8.4	10.5	12.6	14.7	16.8	18.9	21	23.1	25.2	29.4	33.6	10
11	1.27	1.90	2.54	3.81	5.08	6.35	7.65	8.89	10.16	12.70	15.23	17.82	20.32	22.82	25.41	27.98	30.5	35.58	40.62	11
12	1.51	2.26	3.03	4.52	6.06	7.5	9.06	10.57	12.12	15.12	18.12	21.1	24.24	27.22	30.24	33.22	36.24	42.2	48.48	12
13	1.77	2.66	3.55	5.32	7.1	8.8	10.65	12.39	14.2	17.75	21.3	24.7	28.4	31.95	35.5	39.04	42.6	49.4	56.8	13
14	2.05	3.08	4.11	6.16	8.23	10.2	12.33	14.35	16.46	20.57	24.66	28.7	32.92	37	41.1	45.21	49.32	57.4	65.84	14
15	2.36	3.54	4.72	7.08	9.45	11.8	14.16	16.52	18.9	23.62	28.32	33	37.8	42.5	47.2	51.92	56.64	66	75.6	15
16	2.69	4.03	5.37	8.05	10.74	13.43	16.11	18.8	21.48	26.85	32.22	37.59	42.96	48.33	53.7	59.07	64.44	75.27	85.92	16
17	...	4.55	6.06	9.11	12.14	15.17	18.21	21.24	24.28	30.35	36.42	42.49	48.56	54.63	60.7	66.77	72.84	84.98	97.12	17
18	...	5.10	6.90	10.20	13.61	17.01	20.4	23.81	27.22	34	40.8	47.6	54.4	61.2	68	74.8	81.6	95.2	108.8	18
19	...	...	7.50	11.37	15.16	18.95	22.5	26.4	30.32	37.82	45.48	53	60.64	68.15	75.8	83.3	90.9	106.15	121.3	19
20	...	...	8.39	12.60	16.79	21	25.05	29.40	33.6	42	50.25	58.8	67.2	75.6	84	92.4	100.8	117.6	134.4	20
21	...	...	...	13.89	18.52	23.15	27.78	32.41	37.04	46.3	55.56	64.82	74.08	83.34	92.6	101.8	111.1	129.6	148.1	21
22	...	...	...	15.27	20.33	25.41	30.50	35.57	40.66	50.8	60.96	71.12	81.32	91.44	101.6	111.1	121.9	142.2	162.6	22
23	...	...	...	16.66	22.22	27.77	33.33	38.88	44.43	55.55	66.66	77.77	88.86	99.9	111.1	122.1	133.3	155.5	177.7	23
24	...	...	...	18.15	24.19	30.24	36.29	42.30	48.38	60.45	72.54	84.63	96.76	108.8	120.9	132.9	145.18	160.1	193.5	24
25	...	...	...	...	...	39.4	46.02	52.6	65.75	78.8	92.05	105.2	118.3	131.5	144.6	157.6	184.1	210.4	25	
26	...	...	...	...	...	42.57	49.66	56.6	70.95	85.14	99.33	113.6	127.7	141.9	155.9	170.2	198.4	226.6	26	
27	...	...	...	...	...	45.93	53.58	61.2	76.58	91.86	107.17	122.4	137.7	153.1	168.4	183.7	214.2	244.8	27	
28	...	...	...	...	...	49.38	57.6	65.8	82.3	98.70	115.3	131.7	148.1	164.6	180.9	197.5	230.4	263.4	28	
29	...	...	...	...	...	53	61.6	70.7	88.5	106	123.2	141.2	158.4	176.1	194.3	212	246.8	282.4	29	
30	...	...	...	...	...	56.7	66.16	75.6	94.6	113.4	132.3	151.2	170.1	189	207.9	226.8	264.1	302.4	30	
31	...	...	...	...	...	...	...	80.7	100.9	121.15	141.2	161.4	181.6	201.8	221.2	242.3	282.4	322.8	31	
32	...	...	...	...	...	...	...	86	107.6	128.9	150.5	172	193.5	215	236.3	257.8	301	344	32	
33	...	...	...	...	...	...	...	91.3	114.3	137.2	160.09	182.9	205.8	228.7	251.5	274.4	320.1	365.2	33	
34	...	...	...	...	...	...	...	97.8	121.4	145.6	170.2	194.6	218.8	243.2	267.5	291.3	340.6	386.4	34	
35	...	...	...	...	...	...	...	103	128.7	154.5	180.2	206	231.8	257.5	283	309	360.5	412	35	
36	...	...	...	...	...	...	...	108.9	136.1	163.15	190.4	217.6	245	272.2	299.4	326.4	380.9	434.2	36	

SPECIAL WHEELS FOR CUTTING BRASS.

FACE PLATES COVERED WITH EMERY.

TURKEY CORN EMERY, Guaranteed Pure,

SUPERIOR EMERY CLOTH,

TURKEY FLOUR EMERY, do.

IMPROVED GLASS PAPER,

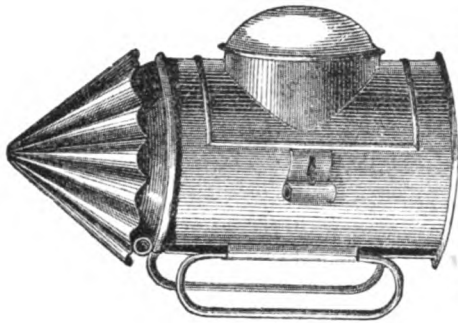
COMPLETE ILLUSTRATED LIST OF LABOUR-SAVING TOOLS AND MACHINES ON APPLICATION.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

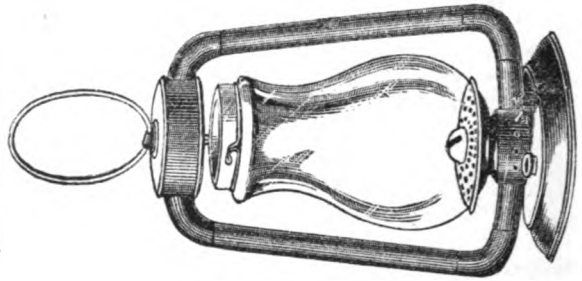
THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

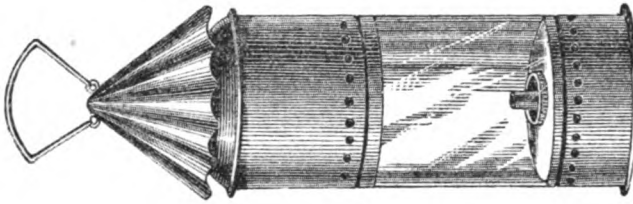
MINERS' LAMPS.



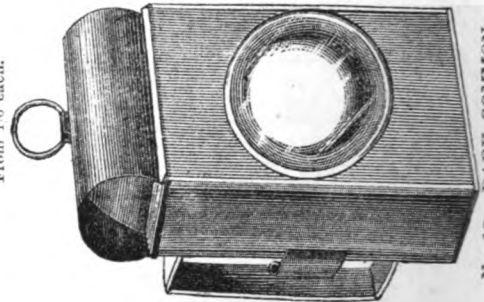
No. 15.—DARK LANTERN.
From 1/0 each.



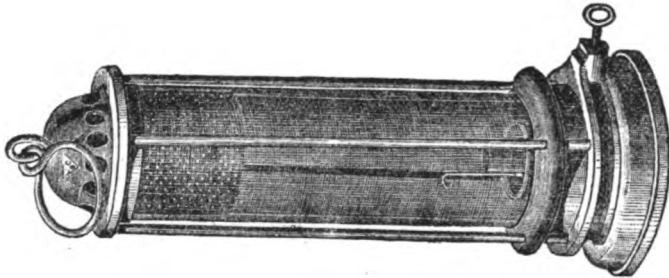
No. 18.—WIND PARRAFIN LAMP, for outdoor use, is not extinguished by the highest wind, useful for stable, &c., light equal to 10 candles.
From 4/0 each.



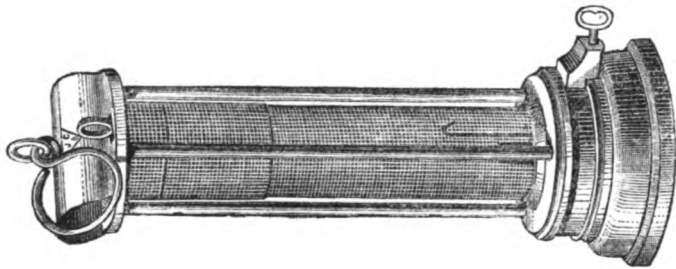
No. 10.—Common Hand Lamp, for ordinary use, glass $\frac{3}{4}$ in. thick.
From 1/0 each.



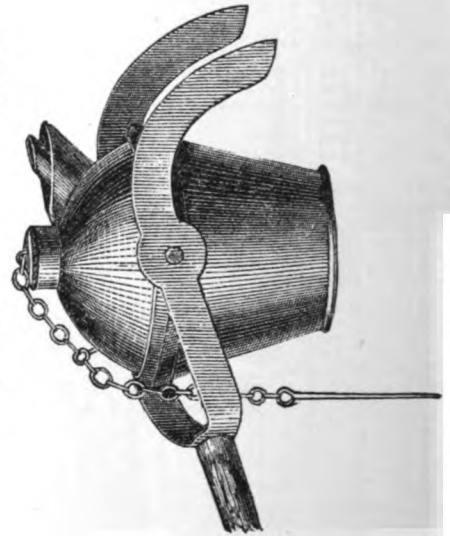
No. 13.—DARK COMMON.
From 11d. each.



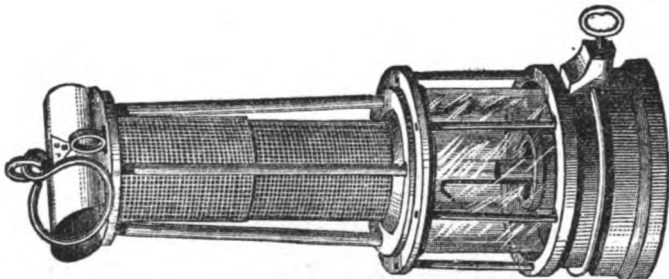
No. 8.—STEPHENSON.
5/9 each.



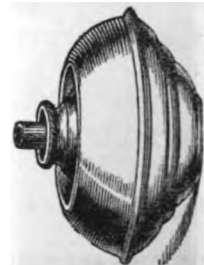
No. 4.—DAVY.
4/0 each.



No. 20.—SWING LAMP. 3 1/4 ft. Stick.
Tin, from 1/1; Brass, from 1/6 each.



No. 2.—CRANNY.
5/6 each.



No. 19.—BALL LAMP.
From 8/0 doz.

LAMPS MADE TO DRAWING, DESCRIPTION, OR MODEL.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

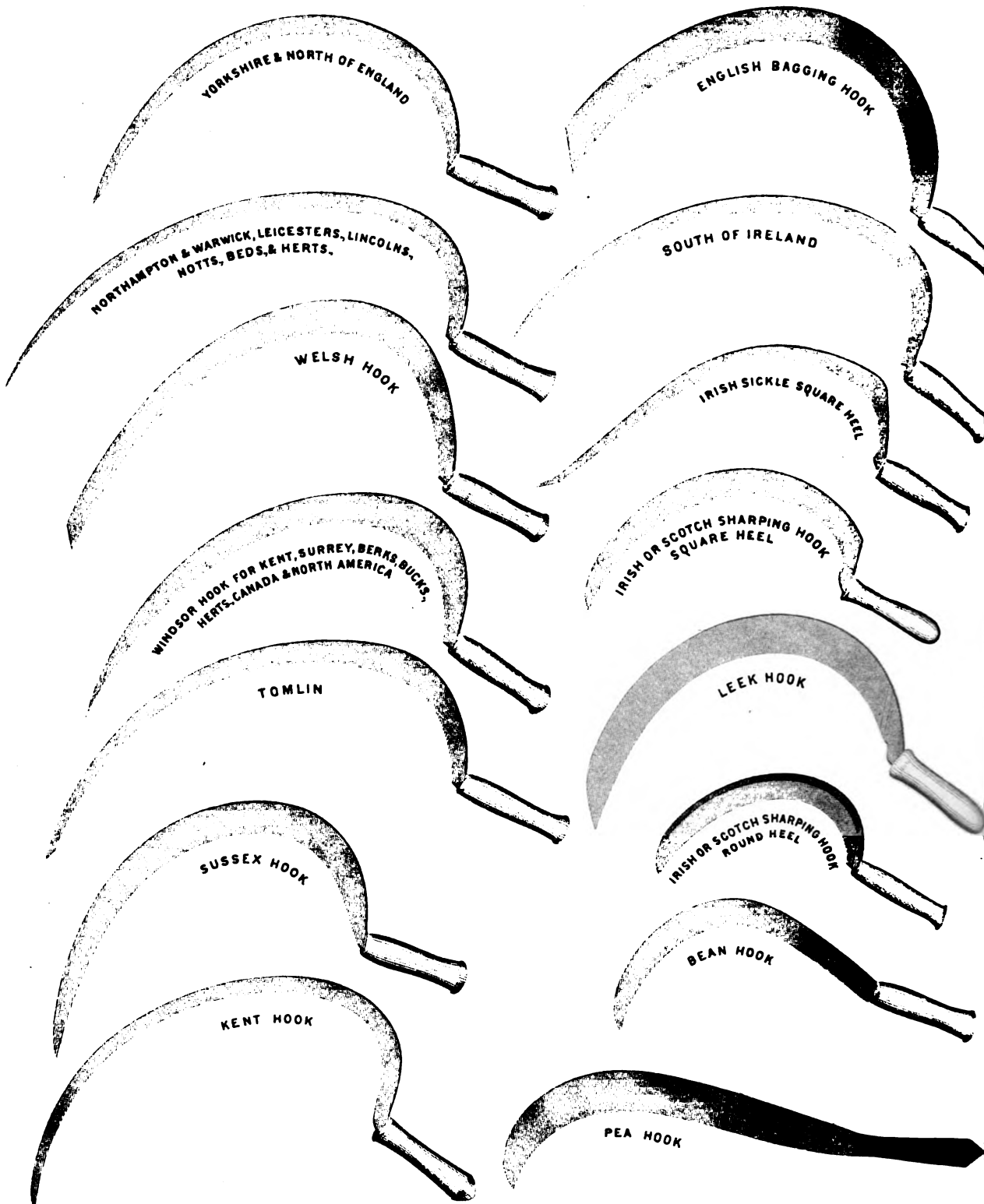
EDWARD BROOKES.

SCYTHES.

No.	PATENT SCYTHES, for England, Ireland, Scotland, Wales, and America.																																				
2117	Patent Scythes—																																				
	80	82	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	ins.																		
	84/0	34/0	84/0	85/0	36/0	87/6	39/0	40/6	42/0	43/6	45/0	46/6	48/0	49/6	51/0	52/6	54/0	57/0	per doz.																		
2118	Crown Scythes—																																				
	80	82	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	ins.																		
	85/6	35/6	85/6	86/0	87/6	39/0	40/6	42/0	43/6	45/6	49/0	52/6	55/6	58/6	62/0	65/0	68/0	72/0	per doz.																		
2119	Ex. Warranted—																																				
	80	82	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	ins.																		
	40/0	40/0	40/0	41/0	42/0	43/0	44/0	45/6	47/6	50/0	52/6	55/0	58/0	64/0	64/0	67/0	70/0	74/0	per doz.																		
PATENT SCYTHES, suitable for Canada and the States of America.																																					
2119A	Patent Canada Scythes; Heel, 2½ in. broad ..																			26	28	30	32	34	36	38	40	42	44	in.							
2119B	Crown ditto ditto ..																			24/6	25/0	25/9	26/6	27/6	28/6	29/6	30/6	32/0	34/0	doz.							
																				36	38	40	42	44	46	48	50	52	54	in.							
2119C	Patent American or Australian Grass Scythes; Heel, 2½ in. broad ..																			33/6	35/0	36/0	37/6	39/0	40/6	42/0	43/6	45/0	46/6	doz.							
2119D	Crown ditto ditto ditto ..																			35/0	36/0	37/6	39/0	40/6	42/0	43/6	45/0	46/6	48/0	..							
2119E	Patent American Corn Scythes; Heel, 3 in. broad ..																			35/0	36/0	37/6	39/0	40/6	42/0	43/6	45/0	46/6	48/0	..							
2119F	Crown ditto ditto ditto ..																			36/0	37/6	39/0	40/6	42/0	44/0	46/0	50/0	54/0	58/0	..							
																				86	88	40	42	44	46	in.											
2119G	Patent Broad Heel German Scythes; Heel, 8½ in. broad ..																			35/0	36/0	37/6	39/0	40/6	42/0	44/0	per doz.										
																				36	38	40	42	44	in.												
2119H	Patent Schleswig Scythes; Heel, 8½ in. broad ..																			35/0	36/0	37/6	39/0	40/6	per doz.												
																				17	20	24	28	30	33	36	in.										
2119I	Crown Scythes, for Norway and Sweden ..																			23/6	23/6	23/6	25/6	26/3	27/3	28/9	per doz.										
																				24	26	28	30	in.													
2119J	Crown Bramble Scythes; Heel, 8½ in. broad ..																			36/0	37/6	39/0	40/6	per doz.													
2119K	Patent ditto ditto ..																			36/0	37/6	39/0	40/6	..													
																				16	18	20	22	24	26	28	30	in.									
2119L	Crown Hay Knives ..																			37/0	38/6	41/6	47/6	63/0	82/0	100/0	130/0	per doz.									
2119M	Patent ditto ..																			36/0	37/0	38/6	41/6	51/0	65/0	82/0	100/0	..									
Nuts and Screws, cross handles, 3/4 per doz. extra; Broad Pointed Trussing Knives, 20/0 per doz. extra.																																					
Patent and Crown Thatchers' Knives, without handles, 45/0 per doz.; if handled, 50/0 per doz.																																					
																				22	24	26	28	30	in.												
Patent and Crown Chaff Knives ..																					41/6	43/6	45/6	52/6	62/0	per doz.											
																				22	23	24	25	26	27	28	30	in.									
Best Cast Steel Patent Straw Knife Blades, 16th Gauge ..																					23/0	24/3	25/6	26/6	27/9	30/0	32/6	35/6	doz.								
Second Quality ditto ditto ditto ..																					22/3	22/9	23/0	24/3	25/6	26/6	27/9	31/0	..								
Cast Steel Machine Knives, for cutting hay or straw—																					14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
																				33/6	35/0	36/0	37/6	39/0	42/0	46/6	51/0	55/6	58/0	65/0	72/0	76/0	80/0	85/0	92/0	100/0	per doz.
BEST SCYTHE STRICKLES.																																					
																				10	11	12	13	14	in. on the Blade.												
Best Flat Emery Strickles ..																					3/2	3/4	3/6	3/8	3/10	per doz.											
Best Square ditto ..																					3/4	3/6	3/8	3/10	4/0	..											
																				7	8	9	in. on the Blade.														
Bowing Hook Strickles, flat ..																					3/0	3/0	3/0	per doz.													

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

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ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

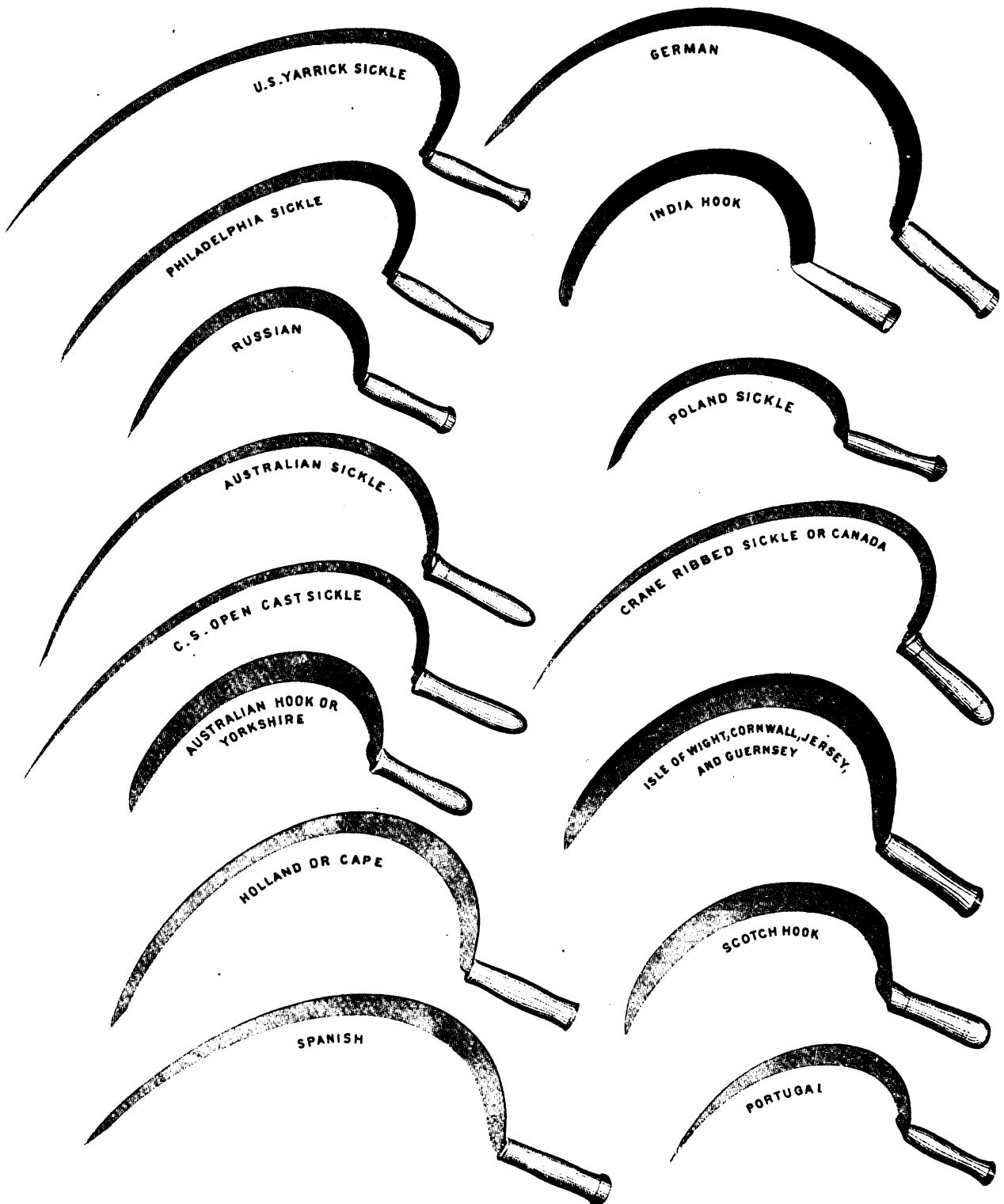
EDWARD BROOKES.

PRICES OF SICKLES AND REAPING HOOKS.

Dis- count.	No.	Prices for Kent, Sussex, Essex, Cambridge, Lincoln, Nottingham, York, Northampton, Bucks., and Oxford.	Dis- count.	No.	Cardigan, Welsh, Andrews', Ironsides, Scroggs'.
		No. 1 2 3 4			80 82 84 .. in.
		20 22½ 25 27½ in.			25/0 25/9 27/0 25/9 16/3 doz.
	2181	Common Sickles.. 7/8 9/0 10/9 12/6 doz.		2197	Bean Hooks, same as Bagging and Andrews' Hooks, according to length.
		21 23½ 26 28½ in.		2198	Best Patent Hooks, 1/3 per doz. more than Common Hooks.
	2182	Cast Steel ditto .. 8/6 10/3 12/0 18/9 doz.			Prices of Sickles and Hooks for Scotland, the North of England, and the Isle of Man—
		Sandwiches, Tomlins', and Powell Sickles, 1/3 per doz. more than these prices.			No. 0 1 2 3 4
		Elastic Sickles, 9d. per doz. extra.			18 20 22 24 in.
	2183	Stortford Sickles, Boys', 11/9; Men's, 18/6; 25 in.		2199	Common Sickles.. 6/3 6/9 7/3 9/0 doz.
		G. B. Sickles, same price as Stortfords.		2200	Glazed ditto .. 6/9 6/9 no larger made.
		Prices for Ireland, Derby, Stafford, Warwick, Gloucester, North Wales, Salop, Chester, and Lancashire.			No. 0 1 2 3 4
	2184	Common Sickles—			19 21 23½ 26 28½ in.
		No. 2 8 4 5 6 7		2201	C.S. Ribbd. Skls. 7/3 8/6 10/3 12/0 13/9 doz.
		20 22½ 25 27½ 30 32½ in.			If made broad, 1 in. shorter.
		7/8 9/0 10/9 12/6 14/3 16/0 doz.		2202	Best Kendal Skls. 7/3 8/6 10/3 12/0 14/3 "
	2185	Cast Steel Sickles—			19 21 23 25 27 in.
		21 23½ 26 28½ 31 33½ in.		2203	Best Shrng. Hks. 10/3 11/6 12/6 13/9 15/0 doz.
		8/6 10/3 12/0 13/9 16/0 17/3 doz.		2204	Best Sickles do. 10/9 12/0 13/3 14/3 16/0 "
	2186	Kendal Sickles—			24 26 28 in.
		17 19 21 23½ 26 28½ in.		2205	Best Bean Hooks .. 13/9 15/0 16/3 doz.
		6/9 7/3 8/6 10/3 12/6 14/3 doz.		2206	Best Patent do. 13/0 14/3 15/6 16/9 18/0 "
		Patent Sickles, same length, 6d. doz. extra.			Prices of Sickles and Hooks for Foreign Parts.
	2187	Best Patent Improved Hooks—			PRICES FOR POLAND.
		No. 2 3 4 5 6			No. 1 2 3
		19 21 23 25 27 in.			19 21 23 in.
		13/0 14/8 15/6 16/9 18/0 doz.		2207	Best Poland Skates 6/4 7/6 8/9 doz.
	2188	Best Sharpening Hooks—			Plain Sickles, 3d. per doz. less.
		No. 2 3 4 5 6			PRICES FOR RUSSIA.
		19 21 23 25 27 in.			No. 1 2 3
		10/3 11/6 12/9 14/0 15/9 doz.			16 18 20 in.
		General prices of Hooks for the different Counties, where suitable.		2208	Plain Russia Sickles 5/9 6/0 6/4 doz.
	2189	Norfolk Hooks—		2209	Ribbed ditto 7/0 7/3 7/6 "
		No. 00 0 1 2 3 4		2210	Best Bright Russia Sickles 8/4 8/8 9/0 "
		19 20½ 22 23½ 25 26½ in.			PRICES FOR CANADA, SOUTH AMERICA, UNITED STATES, &c.
		10/3 11/6 12/6 13/9 15/0 16/3 doz.			No. 2 3 4 5 6
	2190	Lincoln Hooks—			20 23½ 25 27½ 30 in.
		17½ 19 20½ 22 23½ 25 in.			5/9 7/3 8/9 10/3 12/0 doz.
		11/6 12/6 13/9 15/0 16/3 17/6 doz.		2211	Common Sickles for Canada, South America, and Philadelphia—
		Boys' Garret Sickles, 12/0; Men's, 13/9 doz.			No. 2 3 4 5 6
		22 24 26 28 in.			20 23½ 25 27½ 30 in.
		Boys'. Small. Middle. Large.			5/9 7/3 8/9 10/3 12/0 doz.
	2191	Bagging Hooks 13/0 15/0 17/6 19/6 doz.		2212	C.S. Ribbed ditto—
		23½ 26 28½ 31 in.			21 23½ 26 28½ 31 in.
	2192	Sussex Hooks 13/0 15/0 17/0 19/0 doz.			7/0 8/3 9/6 11/6 13/3 doz.
	2193	Yorkshire, Cornish, Hants, & Surrey Hooks—		2213	Best Shrng. Hooks for Canada and South America—
		Sm. Boys'. Boys' Women's. Men's. Lrg. Men's.			20 21 23 25 27 in.
		19 21 23 25 27 in.			9/9 11/0 12/0 13/3 14/6 doz.
		10/3 11/6 12/6 14/3 15/9 doz.			Yarrick Sickles, 1/0 per doz. more than Philadelphia Sickles.
		8d. doz. for Cranking, and 3d. doz. extra for Crutched Handles. Sickles Hooks, 6d. doz. more than Sussex Hooks.			17 18½ 20 in.
	2194	Isle of Wight, Jersey, and Guernsey Hooks—		2214	Socket Hooks 14/6 16/0 17/9 doz.
		No. 0 1 2 3 4		2215	Hollanders', 18 in., 5/9 per doz.
		13½ 15½ 17½ 19½ 21½ in.		2216	Monkey Knives, 12 in., 6/4 per doz.
		8/0 9/0 10/3 11/6 12/9 doz.			
	2195	Socketted Pea Hooks, small, 21/6; large, 23/6.			
		27 29 29 in.			
	2196	Lloyd's Hooks 17/6 20/0 Wilkins' 21/6 doz.			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

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THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

SHEEP SHEARS, &c.

	No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Sheep Shears	15/0	16/0	17/0	18/0	20/0	22/0	24/0	26/0	28/0	30/0	32/0	34/0	36/0	38/0	40/0
Patent	28/0	30/0	32/0	34/0	36/0	38/0	41/0	52/0	62/0	..
Pocket Docking Shears, 18/0; Swaged ditto, 20/0; Bright ditto, 20/0; Large ditto, or L.D., 24/0 per doz.															
Bent Devon Sheep Shears
Patent Bent ditto
Cast Steel Trowel-shank Sheep Shears, 32/0; Patent ditto, 38/0 per doz.															
Best Leicestershire Sheep Shears, 32/0 per doz.															
Humpt Woolstaplers', Flyers', and Snappers' Shears, 37/0 per doz.															
Thatchers' Shears, 30/0 per doz.															
No. 33r. Tomlin's pattern, 30/0 per doz.															
Rag, or Bright Solid Shank Shears
No. 0 1 2 3 3 I.H.S. 4 4 I.H.S. A A.C.S. B B.C.S.															
Best American ditto	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6	24/6	25/6	26/6	27/6	28/6	29/6
Patent Bent ditto
No. 15 16 17 18															
Trowel-shank American Cast Steel Sheep Shears
Patent ditto
No. 3 3 I.H.S. A A.C.S.															
Best Trinity Sheep Shears, to 5 in. blades
Patent Bent ditto
No. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7															
Black Dorset Sheep Shears, No. 6
Cast Steel ditto
Cast Steel Broad Heeled Sheep Shears, Black, 28/0; Bright, 30/0 per doz.															
No. 6 6 c.s. Spring'd c.s.															
Wiltshire or Sarum Sheep Shears
No. 1 2 3 4 Newmarket 5 Scissor Point 6 7															
Horse Shears	15/0	16/0	17/0	18/0	19/0	20/0	21/0	22/0	23/0	24/0	25/0	26/0	27/0	28/0	29/0
No. 1 2 3 4 5 6 7															
Glovers' and Breeches Makers' Shears
No. 12 1/2 L.P., 32/0; No. 88 Bent Sheep Shears, 34/0; No. 12 Weeman, 32/0 per doz.															
Ditto Improved Ridged, 2/0 per doz. extra.															
Rug Shears, 44/0 per doz.															
All Bent Sheep Shears, 6d. per doz. extra.															
N.B.—Sheep Shears advanced 1/0 per doz. January, 1857.															

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PATENT POINTED BRASS AND COPPER WOOD-SCREWS.

Dis- count.	$\frac{1}{8}$ inch. No. per gross.	$\frac{3}{8}$ inch. No. per gross.	$\frac{1}{2}$ inch. No. per gross.	$\frac{3}{4}$ and 1 inch. No. per gross.	$1\frac{1}{2}$ inch. No. per gross.
	4 1/6	4 1/8	4 1/10	6 2/9	6 3/8
	5 1/7	5 1/10	5 2/0	7 3/0	7 3/7
	6 1/9	6 2/0	6 2/8	8 3/4	8 4/0
	7 2/0	7 2/8	7 2/6	9 3/8	9 4/5
	8 2/3	8 2/5	8 2/8	10 4/1	10 4/11
	9 2/6	9 2/8	9 3/0	11 4/6	11 5/5
	10 2/9	10 3/0	10 3/4	12 5/0	12 6/0
	11 3/4	11 3/4	11 3/10	13 5/7	13 6/8
	12 3/8	12 3/8	12 4/4	14 6/8	14 7/5
		13 4/6	13 4/10	15 7/0	15 8/3
		14 5/9	14 5/9	16 7/10	16 9/2
			15 7/0	17 8/11	17 10/4
			16 7/10	18 10/0	18 11/6
			17 8/11	19 11/2	19 12/9
				20 12/6	20 14/2
				22 17/3	22 17/8
	$1\frac{1}{2}$ inch. No. per gross.	$1\frac{1}{2}$ inch. No. per gross.	2 inch. No. per gross.	$2\frac{1}{2}$ inch. No. per gross.	$2\frac{1}{2}$ inch. No. per gross.
	8 4/8	9 5/11	10 7/5	10 8/3	12 11/0
	9 5/2	10 6/7	11 8/2	11 9/1	13 12/1
	10 5/9	11 7/8	12 9/0	12 10/0	14 13/3
	11 6/4	12 8/0	13 9/11	13 11/0	15 14/8
	12 7/0	13 8/10	14 10/11	14 12/1	16 15/10
	13 7/9	14 9/9	15 12/0	15 13/8	17 17/5
	14 8/7	15 10/9	16 13/2	16 14/6	18 19/0
	15 9/6	16 11/10	17 14/7	17 16/0	19 20/8
	16 10/6	17 13/2	18 16/0	18 17/6	20 22/6
	17 11/9	18 14/6	19 17/6	19 19/1	22 26/5
	18 13/0	19 15/11	20 19/2	20 20/10	24 30/8
	19 14/4	20 17/6	22 22/9	22 24/7	26 36/0
	20 15/10	22 20/11	24 26/8	24 28/8	28 44/0
	22 19/1	24 24/8	26 32/0	26 34/0	30 48/0
	24 22/8	26 30/0	28 38/0	28 40/0	32 54/0
	26 28/0	28 36/0	30 44/0	30 46/0	
	28 34/0	30 42/0	32 50/0	32 52/0	
	$2\frac{3}{4}$ inch. No. per gross.	3 inch. No. per gross.	$3\frac{1}{2}$ inch. No. per gross.	4 inch. No. per gross.	$4\frac{1}{2}$ inch. No. per gross.
	14 14/5	14 15/7	14 18/0	16 25/0	16 30/0
	15 15/9	15 17/0	15 20/0	17 27/0	18 34/0
	16 17/2	16 18/6	16 22/0	18 29/0	20 37/0
	17 18/10	17 20/8	17 24/0	19 31/6	22 43/0
	18 20/6	18 22/0	18 26/0	20 33/6	24 50/0
	19 22/3	19 23/10	19 28/0	22 39/0	26 55/0
	20 24/2	20 25/10	20 30/0	24 45/0	28 65/0
	22 28/3	22 30/1	22 35/0	26 50/0	30 75/0
	24 32/8	24 34/8	24 40/0	28 60/0	32 90/0
	26 38/0	26 40/0	26 45/0	30 70/0	
	28 45/0	28 50/0	28 55/0	32 85/0	
	30 52/0	30 60/0	30 65/0		
	32 60/0	32 70/0	32 77/6		
	5 inch. No. per gross.	$5\frac{1}{2}$ inch. No. per gross.	6 inch. No. per gross.	$6\frac{1}{2}$ inch. No. per gross.	
	20 40/6	20 50/0	20 60/0	22 75/0	
	22 47/0	22 55/0	22 65/0	24 80/0	
	24 55/0	24 60/0	24 70/0	26 90/0	
	26 60/0	26 70/0	26 80/0		
	28 73/0	28 84/0	28 96/0		
	30 86/0	30 100/0	30 120/0		
	32 100/0	32 130/0	32 150/0		

Round Heads are charged one size larger than Flat Heads.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PATENT POINTED IRON WOOD-SCREWS.

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
To 1/4 in.	8 1/4 d.	8 1/4 d.	8 1/4 d.	8 1/4 d.	9 d.	9 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.
No. 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1/2 in.	9 1/4 d.	9 1/4 d.	10 d.	10 d.	10 d.	10 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3/4 in.	10 d.	10 d.	10 d.	10 d.	10 d.	10 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 in.	10 d.	10 d.	10 d.	10 d.	10 d.	10 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1 1/4 in.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 1/2 in.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 3/4 in.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	1 1/4 d.	2 1/4 d.	2 1/4 d.
No. 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2 1/4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2 1/2 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
2 3/4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
3 1/4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
4 1/4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
5 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
5 1/4 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.
No. 18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
6 in.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.	2 1/4 d.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICES OF NAILS, Delivered at London, Liverpool, Hull, &c.													
May 15th, 1826.		Subject to future Alterations.											
					4	5	6	8	10	12	14	oz.	
Rose and Flemish Tacks 8½d. 8½d. 8½d. 9½d. 9½d. 10½d. 10½d.													
Best Flemish, same price as Fine Clout.													
Rose, Billed Brads, and Flat Points.													
2	2½	3	4	5	6	7	7½	8	9	10	11	12	lbs.
1/2	1/3½	1/5	1/7½	1/10	2/0½	2/3	2/4½	2/5½	2/8	2/10½	3/1	3/3½	
13	14	16	18	20	22	24	28	30	32	36	40	lbs.	
3/6	3/8	4/1	4/6	4/11	5/5	5/10	6/8	7/1	7/6	8/4	9/2		
Clasp to 10 lbs., 2d.; and larger, 1d. over. Flemish, 2d. over; if countersunk, 3d. over.													
Fine B Brads, 4d. over. Lighter to a 13 lb., 3d.; larger, 4d. over. Bermuda and Lap, 1/0 over.													
Spikes and Drawing 3½ 4 4½ 5 5½ 6 in. and larger.													
Fine, 1/0 more; Deck, 6d. more. X Heads, 1/0; and Fine X Heads, 2/0 over.													
Barge 3 3½ 4 4½ 5 5½ 6 in. and larger.													
Fine, 1/0 more; Ribbing, 5 in. and larger, the same.													
Clamp 2½ in. and larger, 29/0 Pipe Nails.....3 in., 40/6; 3½ in. and larger, 39/6													
Back 3 in. and larger, 35/0 Coach Tire Rivets, 3 in. and less, 42/0; larger, 40/0													
Cart Tire Nails 34/0 Pound Nails, 6d. 28/6; 8d. 27/0; 10d. 24/0; 20d. 23/0													
Fine Clasp 2 lbs and less 2½ 3 4 5 6 7 lbs.													
Long Clasp 8 10 14 18 22 24 28 32 36 lbs.													
Weighty Rose 30/6 28/6 27/6 26/9 26/0 Weighty Clasp 31/6 29/0 28/0 27/0 26/3													
8 oz. 12 oz. 14 oz. 1 lb. 1½ lb. 1¾ lb. 2 lb. 2½ lb. 3 lb. 4 lb. 5 lb.													
Battens 8½d. 9½d. 10d. 10½d. 11½d. 1/1 1/2 1/5 1/6 1/10 2/1													
Fine to 1½ lb., 3d.; and larger, 4d. over. Best Fine Coach Brads, 2½ more than Fine Battens.													
Glaziers' Sprigs 14 oz., 10d.													
Clout 1½ 2 2½ 3 4 5 7 9 12 14 16 20 lbs.													
Best Clout, as Fine. Round-head Clout, as Fine.													
Best and Fine Flemish, Fine Clout, Pail and Trunk.													
5 oz. and less 6 ox. 8 oz. 10 oz. 12 oz. 14 oz. 1 lb. 1½ lb. 2 lb. 2½ lb. 3 lb. 4 lb. 5 lb. 7 lb.													
11½d. 1/0 1/0½ 1/0¾ 1/1½ 1/2 1/2½ 1/3½ 1/6½ 1/8½ 1/10 2/1 2/4 2/10													
Round-head Pail, 3d. over. Broad Coopers', 2d. more to a 3 lb.; and larger, 3d. more.													
Coopers' Rivets.													
16 oz. and less 1½ 1½ 2 3 4 5 6 7 8 10 12 lb. larger.													
11½d. 1/0 1/1 1/2 1/5 1/7½ 1/10 2/0½ 2/3 2/5½ 2/10½ 3/3 29/0													
Patten, 2d. more. Best Iron, ¼d. per lb. extra.													
Clasp and Round Hobs.													
14 oz. 16 oz. 1½ 1½ 2 2½ 3 4 5 6 7 8 9 10 12 lb.													
11d. 11½d. 1/0½ 1/0¾ 1/2½ 1/4 1/5½ 1/8½ 1/11 2/2 2/4½ 2/7½ 2/10½ 3/1½ 3/7½													
Clinkers, 3d. more. Fine Bell Hobs, 1/0 more.													
Fine Hobbs, Clasp, Round, and Narrow Top.													
14 oz. 1 1½ 1½ 2 2½ 3 4 5 6 7 8 10 12 lb.													
1/3 1/3½ 1/4 1/5 1/6½ 1/8 1/10 2/1 2/4 2/7 2/10 3/1 3/7 4/2													
Fine Clinkers, 3d. more.													
Tip Nails 1½ 1½ 2 2½ 3 lb.													
1/6 1/7 1/8½ 1/10 2/0													
Countersunk, and Countersunk Clout Tips, 3d. per M more.													

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICES OF NAILS.—Continued.

Dis- count.	No.	Best Rose, Sample and Home Made.																			
		7	8	9	10	12	14	16	18	20	22	24	28	32	36	40	40	40	40	40 lbs.	
		2/8	2/10½	3/1	3/3½	3/9½	4/2	4/7	5/1	5/6	6/0	6/5	7/4	8/4	9/4	10/3	27/0	26/0	4	4½	5 in.
		Fine Rose.																			
		2½	3	3½	4	5	6	7	8	10	12	13	14	16	18	20	24	28	30	36 lbs.	
		1/7	1/8½	1/10	1/11½	2/2	2/5	2/8½	2/11½	3/4½	3/9½	4/0	4/3	4/8	5/1	5/7	6/6	7/6	7/11	9/4	
		Tenter Hooks.																			
		1	1½	1½	2	2½	3	4	5	6	7	9	10	12	14	16	18	20	24	28 lbs.	
		1/7	1/8	1/9	1/10½	2/0	2/2	2/5½	2/9	3/0½	3/4	3/11½	4/2	4/10	5/5	6/0	6/7	7/3	8/3	9/2	
		Round Bill'd, 4d.; Tilling, 6d. per M more.																			
		Mop Nails, 43/0; Fine, 45/0; Knee Nails, same.																			
		Rose Clench.																			
		5	6	8	9	10	11	12	14	17	20	24	28	32	40	lbs.					
		2/3	2/6	2/11	3/3	3/5½	3/8	3/11	4/3	4/10½	5/7	6/7	7/8	8/9	10/10						
		Slender Clench .. 2/5 2/8 3/1 3/6½ 4/0 4/5 5/1 5/10 6/7 9/10																			
		Sample Clench, the same.																			
		1 lb. 6 oz. and less 2 3 4 lbs.																			
		Wherry Clench 1/5 1/7 1/11 2/2																			
		Fine Sample Clench, 4d. more.																			
		3 and less	4	6	8	10	12	14	20	24	28	30	32	36	lbs.						
		Roves	3/0	3/4	4/1	5/0	6/0	7/0	8/0	11/0	13/0	15/0	16/0	17/6	19/6						
		Larger, 6d. per lb.; Flat Roves to 10 lb., 4d.; Larger, 6d. per M more.																			
		5 6 7 8 10 lbs. 14 16 lbs.																			
		Fine Rising 2/11½ 3/1½ 3/3½ 3/7½ 4/4½ Rose Rising 6/2 6/7																			
		Timber or Rising..... 2/10½ 3/6½ 4/2½ 4/7																			
		9 12 16 20 24 28 lbs. Larger 8 13 oz.																			
		Dog Nails 3/4 4/2 5/0 6/0 7/0 8/0 31/6 Round Heads 11½d. 1/0½																			
		Fine to 16 lbs., 4d.; Larger, 8d. more.																			
		4 5 6 7 8 lbs. 14 16 22 28 30 lbs.																			
		Scupper .. 1/11½ 2/2 2/4½ 2/7 2/9½ Woolding .. 5/10 6/4 7/6 9/2 9/7																			
		Fine, 4d. more; Fine Bellows, 8d. more.																			
		Hurdle 3/7 4/0 4/5 4/10 5/3 5/8																			
		Fine Hurdle, Kent Hurdle, and Fine Tray.																			
		7	8	9	10	12	14	16	18	20	22	24	lbs.								
		3/2	3/5	3/8	3/11	4/3	4/9	5/3	5/8	6/2	6/7	7/3									
		2 2½ 2½ 3 3½ in.																			
		Tray Nails and Fine Gate 40/0 38/0 36/0 33/6 32/0																			
		2 2½ 2½ 3 in.																			
		Fine Essex Hurdle 45/0 42/6 40/0 38/0																			
		45 55 75 lbs. 38/0 37/0 36/0																			
		Vane Nails..... 9 W.G. 8 W.G. 7 W.G. 6 W.G. 5 and larger.																			
		Best C'sk. Coag. Rivets 80/0 65/0 55/0 49/0 43/0																			
		Tinning, 2d. per lb., net.																			
		Coil Chain. Twisted Backbands. Cart Traces. Plough Traces.																			
		Best Derby Horse Nails. (From the Derby Prices.)																			
		Best Countersunk Town Clout.																			
		3	4	5	6	7	9	10	12	16	20	22	24	2½ in.	3 in. and larger.						
		2/9	2/11	3/1	3/5	3/9	4/4	4/9	5/2	6/4	7/6	8/2	8/9	40/6	39/6						
		Board Nails, the same. Discount,																			

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICES OF WROUGHT NAILS, &c.

Dis- count.	No	Subject to alteration, without notice.											
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	in.		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	in.	
		1/11	1/6	1/1	1/0	per lb.	Best Flemish Tacks	2, 6 $\frac{1}{2}$	2/0	1/5	1/4	per lb.	
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	in.		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	in.	
		3/10	2/7	2/0	1/8	per lb.	Fine Flemish Tacks	1/5 $\frac{1}{2}$	1/2 $\frac{1}{2}$			per lb.	
		$\frac{7}{8}$	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		$\frac{7}{8}$	1	1 $\frac{1}{2}$	2	in.	
		101/0	89/6	75/6	67/0	per cwt.	Fine Clout	59/6	54/6	51/0	45/6	per cwt.	
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	1	in.		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	1	in.	
		103/0	89/6	79/0	70/6	per cwt.	Best Clout	54/0	40/0			per cwt.	
		84/6	73/6	61/6	53/6	per cwt.	Clout	41/6	34/0			per cwt.	
		1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	in.		
		37/0	35/0	34/0	33/0	per cwt.	Slate	32/0	36/0			per cwt.	
		46/0	41/6	..	39/0	per cwt.	Fine Slate	36/0	..			per cwt.	
		$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	in.		$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	in.	
		3/6	1/9	1/1 $\frac{1}{2}$	11d.	per lb.	Fine Battens or Fine Sprigs	8 $\frac{1}{2}$ d.	6 $\frac{1}{2}$ d.	5 $\frac{1}{2}$ d.	5 $\frac{1}{2}$ d.	4 $\frac{1}{2}$ d.	per lb.
		1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		1	1 $\frac{1}{2}$	2	3	in.	
		103/0	77/6	60/0	51/0	per cwt.	Fine Clasp	45/6	39/6	30/6	27/0	25/0	per cwt.
		1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	3	in.	
		39/0	35/0	30/6	28/6	per cwt.	Rose	26/6	25/0	23/6	22/6	per cwt.	
		1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	in.		1 $\frac{1}{2}$	2 $\frac{1}{2}$	3	in.		
		31/0	29/6	28/0	26/0	per cwt.	Coopers' Nails	24/6	22/6			per cwt.	
		1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	in.		1 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	in.	
		37/6	31/0	28/6	26/6	per cwt.	Boat Nails, flat points	24/6	23/0	18/6		per cwt.	
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	1	in.		$\frac{3}{8}$	$\frac{7}{8}$	1	in.		
		47/0	42/0	38/6	36/0	per cwt.	Scupper	37/0	32/0	30/6		per cwt.	
		4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	in.		4	7	8	in.		
		17/6	17/0	16/0	15/3	per cwt.	Rose Spikes	14/6	14/0	13/6		per cwt.	
		Fine, 9d. more.						Diamond and Dye Deck, 3d. more.					
		1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	in.		1	2	3	in.		
		98/0	68/0	57/6	50/6	per cwt.	Clasp and Round Hobs	46/0	40/6	36/6	34/0	31/0	29/6
		$\frac{7}{8}$	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		$\frac{7}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	in.
		92/0	71/0	60/0	54/0	per cwt.	Tenter Hooks	49/6	46/6	43/6	39/6	38/6	37/0
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	1	in.		$\frac{3}{8}$	$\frac{7}{8}$	1	1 $\frac{1}{2}$	in.	
		48/0	43/0	41/0	39/6	per cwt.	Improved Flat Bill Hooks						per cwt.
		$\frac{3}{8}$	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	in.		$\frac{3}{8}$	1	1 $\frac{1}{2}$	2	in.	
		74/6	50/0	43/6	39/0	per cwt.	Best Countersunk Clout	35/0	32/0	30/6	29/0	28/0	per cwt.
		4	5	6	7	in.		4	5	6	7	in.	
		131/0	105/0	88/6	80/6	per cwt.	Best Countersunk and Half-countersunk Horse	75/6	71/6	69/0	67/0	65/6	64/0
		1	2	3	4	in.		1	2	3	4	in.	
		85/0	48/0	39/0	34/6	per cwt.	Best Coopers' Rivets	26/0	23/0	22/0	21/0	20/0	19/6
		$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	1	in.		$\frac{3}{8}$	$\frac{7}{8}$	1	1 $\frac{1}{2}$	2	in.
		31/0	23/0	20/0	18/0	per cwt.	Round and Cheese Head Rivets	16/0	14/9	14/6	14/3	per cwt.	

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

FINE AND STRONG CUT, CLASP, ROSE, AND CLOUT NAILS.

Dis-
count.

No.

$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	in.								
Flooring Brads, sheet, 2 in. and above,										per cwt. ; Nails, galvanized,					per cwt. extra.					per cwt.								
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
Lath Nails.....										per cwt.										per cwt.								
Copper Slate Nails,										per lb. ; Zinc Slate Nails, 1, $1\frac{1}{2}$ in.,					per lb. ; above,					per cwt.								
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	inches and above.								
Joiners' Brads.....										per cwt.										per cwt.								
Best American Patent Clout Nails										1					$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	inches and above.					
Best Coopers' Clout and Box Nails										1					$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	inches and above.					
Glaziers' Brads....										per cwt.					Chair Brads...					per cwt.								
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in., in pockets.								
Strong Cut Tacks.....										per cwt.					per cwt.					per cwt.								
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in., in pockets.								
Fine Flemish Tacks.....										per cwt.					per cwt.					per cwt.								
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
Sacking Nails										per cwt.										per cwt.								
Tip Nails										per cwt.										per cwt.								
Shoe Bills—French, Strong,										; Middle,					; Fine,					; Extra Fine,					per cwt.		"	
Ditto —Military,										; Fine Military, $\frac{1}{4}$, $\frac{1}{2}$ in.,					per cwt. extra.					per lb.					"			
Copper Bills.....										per lb.					Brass Bills.....					per lb.					"			
Zinc Bills.....										"					Composition Bills					in.					"			
Round Hobs.....										per cwt.										per cwt.					"			
Welsh Hobs.....										per cwt.										per cwt.					"			
Patten and Clog Nails										per cwt.					Patten Round Headed, same price.					per cwt.								
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
Copper Tacks										per lb.					Copper Brads, same as Tacks.					per lb.								
Zinc Tacks..										"					Zinc ditto ditto					per lb.								
Brass Tacks										"					Brass ditto ditto					per lb.								
$1\frac{1}{4}$	2	$2\frac{1}{4}$	3	4	5	oz.	per cwt.												Nugget Nails					per cwt.				
Iron Lasting Tacks, BB										per cwt.					Nugget Nails					per cwt.								
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
Clog Pins, jappaned										per lb.										per lb.								
Ditto tinned										per lb.										per lb.								
Every description of Cut Nails made to pattern.																												
BRASS HEAD NAILS.																												
$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	in.								
$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{10}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	per gross.							
BRASS HOOKS, TO SCREW OR DRIVE.																												
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	per gross.								
Cup Hooks, same prices,—Discount.																												
CONSUMER HOOKS.																												
1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	in.									
$\frac{9}{10}$	$\frac{9}{16}$	$\frac{10}{16}$	$\frac{11}{16}$	$\frac{12}{16}$	$\frac{13}{16}$	$\frac{14}{16}$	$\frac{15}{16}$	$\frac{16}{16}$	$\frac{17}{16}$	$\frac{18}{16}$	$\frac{19}{16}$	$\frac{20}{16}$	$\frac{21}{16}$	$\frac{22}{16}$	$\frac{23}{16}$	$\frac{24}{16}$	$\frac{25}{16}$	$\frac{26}{16}$	$\frac{27}{16}$	$\frac{28}{16}$	per gross.							
BRASS HEAD LOCK SCREWS.																												
1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	in.									
$\frac{3}{10}$	$\frac{3}{16}$	$\frac{4}{16}$	$\frac{5}{16}$	$\frac{6}{16}$	$\frac{7}{16}$	$\frac{8}{16}$	$\frac{9}{16}$	$\frac{10}{16}$	$\frac{11}{16}$	$\frac{12}{16}$	$\frac{13}{16}$	$\frac{14}{16}$	$\frac{15}{16}$	$\frac{16}{16}$	$\frac{17}{16}$	$\frac{18}{16}$	$\frac{19}{16}$	$\frac{20}{16}$	$\frac{21}{16}$	$\frac{22}{16}$	per gross.							
BRASS PLATED COUNTERSUNK HEAD NAILS.																												
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	in.								
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	per gross.								
WROUGHT COPPER BOAT NAILS.																												
$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	in.								
Copper Roves,										per lb., net.					Copper Rivets and Washers,					per lb., net.								
Copper Roves,										per lb., net.					Copper Rivets and Washers,					per lb., net.								

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICES AND TESTS OF CHAINS, DELIVERED.

Minimum weights (ex. Stock) of Anchors of unobjectionable form and proportions; sizes and lengths of Chain Cables and the proof strain to which they are to be tested, agreeable to "LLOYD'S" regulations, made January 1st, 1873.

Prices subject to future alteration.

CHAIN CABLES, TESTED ACCORDING TO LLOYD'S REQUIREMENTS.							SHORT LINK CHAINS.				
Ship's Tonnage.	Minimum Size.	Proved to Admiralty Test.	Length required.	Average Weight of 15 Fathoms.	Stud Link.	Short Link.	Size.	Weight per Fathom.	Admiralty Test.	Best Rigging.	"Lion" Iron Crane Chains.
tons.	inches.	tons.	fath.	cwt.	p. cwt.	p. cwt.	inch.	lbs.	tons.	p. cwt.	p. cwt.
50	$1\frac{1}{8}$	$8\frac{1}{2}$	120	4	17/6	17/9	$1\frac{3}{8}$	3 $\frac{1}{2}$	$\frac{1}{2}$	29/0	41/9
75	$\frac{3}{4}$	$10\frac{1}{10}$	120	$4\frac{1}{2}$	17/0	17/3	$\frac{1}{2}$	5	$\frac{3}{4}$	21/0	29/6
100	$1\frac{1}{8}$	$11\frac{2}{10}$	150	$5\frac{1}{2}$	16/6	16/9	$1\frac{5}{8}$	7	$1\frac{1}{8}$	19/9	27/3
125	$\frac{7}{8}$	$13\frac{3}{4}$	180	6	16/3	16/6	$\frac{3}{8}$	10	$1\frac{1}{8}$	17/9	23/3
150	$1\frac{1}{8}$	$15\frac{4}{10}$	180	7	16/1	16/4	$1\frac{7}{8}$	12	$2\frac{1}{2}$	16/3	20/9
175	1	18	180	8	15/9	16/0	$\frac{1}{2}$	17	3	15/6	19/6
200	$1\frac{1}{8}$	$20\frac{2}{10}$	180	9	15/6	15/9	$1\frac{9}{8}$	20	$3\frac{3}{4}$	15/0	18/9
250	$1\frac{1}{8}$	$22\frac{3}{4}$	210	10	15/5	15/8	$\frac{5}{8}$	26	$4\frac{1}{2}$	14/6	18/2
300	$1\frac{3}{8}$	$25\frac{4}{10}$	210	$11\frac{1}{2}$			$1\frac{11}{8}$	30	$5\frac{1}{2}$	14/3	17/6
350	$1\frac{1}{2}$	$28\frac{1}{10}$	240	$12\frac{1}{2}$			$\frac{3}{4}$	36	$6\frac{3}{4}$	14/0	17/3
400	$1\frac{5}{8}$	21	240	$13\frac{1}{2}$			$1\frac{3}{8}$	42	$7\frac{1}{2}$	13/9	16/10
450	$1\frac{3}{4}$	34	270	$14\frac{1}{2}$			$\frac{7}{8}$	49	$9\frac{1}{8}$	13/6	16/9
500	$1\frac{7}{8}$	$37\frac{2}{10}$	270	$15\frac{1}{2}$			$1\frac{1}{2}$	56	$10\frac{1}{2}$	13/3	16/6
600	$1\frac{1}{2}$	$40\frac{1}{2}$	270	$18\frac{1}{2}$			1	62	12	13/0	16/3
700	$1\frac{7}{8}$	44	300	$19\frac{1}{2}$			$1\frac{1}{8}$	70	$13\frac{1}{2}$		
800	$1\frac{3}{4}$	$47\frac{1}{2}$	300	$20\frac{3}{4}$			$1\frac{1}{4}$	78	$15\frac{1}{2}$		
900	$1\frac{11}{8}$	$51\frac{2}{10}$	300	$22\frac{1}{2}$			$1\frac{3}{8}$	86	17		
1000	$1\frac{3}{4}$	$55\frac{1}{10}$	300	$24\frac{1}{2}$			$1\frac{1}{2}$	96	$18\frac{3}{4}$		
1200	$1\frac{11}{8}$	$59\frac{1}{10}$	300	25			$1\frac{5}{8}$	102	$20\frac{3}{4}$		
1400	$1\frac{3}{4}$	$63\frac{1}{2}$	300	27			$1\frac{3}{4}$	110	$22\frac{1}{2}$		
1600	$1\frac{11}{8}$	$67\frac{1}{2}$	300	29			$1\frac{7}{8}$	118	$24\frac{3}{4}$		
1800	2	72	300	32			$1\frac{1}{2}$	136	27		
2000	$2\frac{1}{8}$	$76\frac{1}{2}$	300								
2500	$2\frac{3}{8}$	$81\frac{3}{10}$	330								
3000	$2\frac{1}{2}$	$91\frac{1}{10}$	360								

B B Crane Chain, "Best Lion," 2/6 per cwt. extra.

	$1\frac{3}{8}$	$\frac{1}{2}$	$1\frac{5}{8}$	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	larger.
Testing Rigging and Crane Chains	1/2	1/1	11d.	9d.	8d.	7d.	6d. per cwt. extra.
Galvanizing ditto	9/6	8/0	8/0	7/6	7/6	7/0	6/0

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PRICES AND TESTS OF ANCHORS, DELIVERED.

Prices subject to future alteration.

WEIGHT AND TESTS OF ANCHORS.									PRICES OF ANCHORS.				
No. Required.				Weight.									
SHIP'S TONNAGE.	BOWERS.	STREAM.	KEDGE.	* BOWERS.		INCLUDING STOCK.			Size.	Common.	Trotman's.	Porter's.	Rodgers'.
				Ex. Stock.	Adm'ty. Test.	Stream.	Kedge.	Second Kedge.					
tons.				cwt.	tons.	cwt.	cwt.	cwt.	cwt.	p. cwt.	p. cwt.	p. cwt.	p. cwt.
50	2	1	1	3½	4 7/10	1	½	—	½ to 1	21/6	—	—	23/6
75	2	1	1	4½	5 3/10	1½	¾	—	1 „ 2	16/6	34/6	34/0	18/6
100	2	1	1	5	6 2/10	2	1	—	2 „ 3	16/6	34/6	34/0	18/6
125	2	1	1	5½	7 1/10	2½	1½	—	3 „ 5	16/6	30/0	29/0	18/6
150	2	1	1	6½	8 3/10	3	2	—	5 „ 10	16/6	24/0	23/6	18/6
175	2	1	1	7½	9 5/10	4	3	—	10 „ 20	16/6	24/0	23/6	18/6
200	3	1	1	8½	10 7/10	5	4	—	20 „ 25	17/0	25/0	24/6	19/0
250	3	1	2	10	12	6	5	1	25 „ 30	17/0	25/0	24/6	19/0
300	3	1	2	12	13 2/10	7	6	1½	30 „ 35	17/6	27/0	26/6	19/6
350	3	1	2	13½	15 3/10	8	7	2	35 „ 40	17/6	27/0	26/6	19/6
400	3	1	2	15½	16 7/10	9	8	3	40 „ 45				
450	3	1	2	16½	18	10	9	4	45 „ 50				
500	3	1	2	18	19	11	10	5					
600	3	1	2	21	21 2/10	12	11	6					
700	3	1	2	23½	23 7/10	13	12	7					
800	3	1	2	25½	25 3/10	14	13	8					
900	3	1	2	27½	26 7/10	15	14	9					
1000	3	1	2	30	28 1/10	16	15	10					
1200	3	1	2	32	30 3/10	17	16	11					
1400	3	1	2	34	31 5/10	18	17	12					
1600	3	1	2	36½	33 1/10	19	18	13					
1800	3	1	2	38	34 3/10								
2000	4	1	2	40	35 5/10								
2500	4	1	2	42	37 7/10								
3000	4	1	2	45	39 9/10								

LARGER IF REQUIRED.

EXTRAS.

PROVING ANCHORS at "LLOYDS'" Public Machine to Admiralty Test—All sizes up to 5 cwt., 5/0 each Anchor.
„ above „ 1/0 per cwt.

* Two of the Bower Anchors must not be less than the weight set forth above, but in the third a reduction of 15 per cent. will be allowed. All Anchor Stocks must be of acknowledged and approved description. Outfits for Vessels, according to "LLOYDS'," can be quoted when specifications are furnished.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Iron Wire Riddles, Wood Rims, 4½ in. deep.

	20 to 36	42	50	60	70	80	90	100	110	120	130	140 meshes in 18 in.
16 in. diameter.....	19/6	21/6	24/6	28/0	31/0	34/6	38/0	43/0	49/0	57/0	72/0	90/0 doz.
18 " 	21/0	23/0	26/6	30/0	33/0	36/6	40/0	46/0	52/0	60/0	76/0	96/0 "
20 " 	26/0	28/0	32/0	36/0	40/0	44/0	48/0	54/0	60/0	70/0	89/0	110/0 "
22 " 	34/0	37/0	42/6	48/0	53/0	58/6	64/0	73/0	82/0	95/0	120/0	151/0 "
24 " 	42/0	46/0	53/0	60/0	66/0	73/0	80/0	92/0	104/0	120/0	152/0	192/0 "

Galvanized Iron Wire Riddles, Wood Rims, 4½ in. deep.

	20 to 36	42	50	60	70	80	90	100	110	120 meshes in 18 in.
16 in. diameter.....	25/0	28/0	32/0	37/0	42/0	47/0	53/0	61/0	70/0	79/0 doz.
18 " 	27/0	30/0	34/0	39/0	44/0	49/0	55/0	64/0	73/0	82/0 "
20 " 	33/0	36/0	40/0	45/0	50/0	57/0	67/0	77/0	87/0	98/0 "
22 " 	43/6	48/0	54/0	61/6	69/0	77/6	88/6	102/6	116/6	131/0 "
24 " 	54/0	60/0	68/0	78/0	88/0	98/0	110/0	128/0	146/0	164/0 "

Strong Iron Wire Foundry or Gravel Riddles, Wood Rims, 4½ in. deep.

	19 to 35	42	50	60	70	80	90	100	110	120 meshes in 18 in.
18 in. diameter.....	27/0	30/0	34/0	39/0	44/0	49/0	55/0	64/0	73/0	82/0 doz.
20 " 	33/0	36/0	40/0	45/0	50/0	57/0	67/0	77/0	87/0	98/0 "
22 " 	43/6	48/0	54/0	61/6	69/0	77/6	88/6	102/6	116/6	131/0 "
24 " 	54/0	60/0	68/0	78/0	88/0	98/0	110/0	128/0	146/0	164/0 "

Strong Galvanized Wire Foundry or Gravel Riddles, Wood Rims, 4½ in. deep.

	19 to 35	42	50	60	70	80	90	100	110	120 meshes in 18 in.
18 in. diameter.....	33/0	37/0	41/6	48/0	55/0	61/6	70/0	82/0	94/0	104/0 doz.
20 " 	40/0	44/0	48/0	54/0	60/0	70/0	86/0	100/0	114/0	126/0 "
22 " 	53/0	59/0	65/6	75/0	85/0	96/6	113/0	132/0	151/0	167/0 "
24 " 	66/0	74/0	83/0	96/0	110/0	123/0	140/0	164/0	188/0	208/0 "

Straight Riddles, same price. Worm Riddles, 20 to 60 meshes, 2/0; 60 to 120 meshes, 5/0 doz. extra.

	18	20	22	24 in. diameter.
Riddles, with Rims 5 in. deep.....	2/6	2/6	3/0	3/0 doz. extra.
" " Bat Rims	5/0	5/0	6/0	6/0 "
" " Four Cross Bars	3/0	3/0	4/0	4/0 "

Strong Foundry Riddles, Iron Rims.

	19 to 35	42	50	60	70	80	90	100	110	120 meshes in 18 in.
18 in. diameter.....	44/0	48/0	55/0	62/0	68/0	75/0	82/0	94/0	106/0	122/0 doz.
20 " 	54/0	58/0	66/0	74/0	82/0	90/0	98/0	110/0	122/0	142/0 "

If Galvanized, 18 in., 15/0; 20 in., 18/0 doz. extra. Extra Strong Riddles, at prices in proportion.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

IRON WIRE SIEVES.

	4 to 10	12	14	16	18	20	24	30	36	42 meshes in an in.
12 in. diameter.....	1/9	1/10	1/11	2/0	2/1	2/2	2/3	2/4	2/6	2/8 each.
14 " 	1/11	2/0	2/1	2/2	2/3	2/4	2/5	2/6	2/8	2/10 ..
16 " 	2/1	2/2	2/3	2/4	2/5	2/6	2/7	2/9	3/0	3/3 ..
18 " 	2/4	2/5	2/6	2/8	2/10	3/0	3/3	3/6	3/9	4/0 ..
20 " 	2/8	2/10	3/0	3/2	3/4	3/7	3/10	4/2	4/6	5/0 ..
22 " 	3/1	3/3	3/6	3/9	4/0	4/3	4/6	5/0	5/6	6/0 ..
24 " 	3/6	3/9	4/0	4/4	4/8	5/0	5/6	6/0	6/6	7/0 ..
		12	14	16	18	20	22	24 in. diameter.		
Galvanized Wire Sieves	4d.	5d.	6d.	7d.	8d.	9d.	10d.	extra.		

BRASS WIRE SIEVES.

	8, 10, or 12	14 or 16	18 or 20	24	30	36	42	48	54	60	70 meshes.
5 or 6 in. diameter....	1/7	1/8	1/9	1/10	1/11	2/1	2/4	2/8	3/0	3/4	3/9 each.
7 or 8 " 	1/8	1/9	1/10	1/11	2/1	2/4	2/8	3/0	3/4	3/9	4/3 ..
9 or 10 " 	1/9	1/10	1/11	2/1	2/4	2/8	3/0	3/4	3/9	4/3	5/0 ..
11 " 	1/10	2/0	2/3	2/6	2/9	3/0	3/4	3/9	4/3	4/9	5/9 ..
12 " 	2/1	2/4	2/7	2/10	3/1	3/5	3/9	4/3	4/9	5/4	6/6 ..
14 " 	2/6	2/9	3/0	3/3	3/6	3/10	4/3	4/9	5/4	6/0	7/3 ..
16 " 	3/0	3/3	3/6	3/9	4/0	4/4	4/10	5/4	6/0	6/9	8/0 ..
18 " 	3/6	3/9	4/0	4/3	4/6	5/0	5/8	6/4	7/0	7/9	8/9 ..
20 " 	4/0	4/3	4/6	4/9	5/3	5/9	6/6	7/8	8/0	8/9	9/9 ..
22 " 	4/9	5/0	5/3	5/6	6/0	6/9	7/6	8/3	9/0	10/0	11/6 ..
24 " 	5/9	6/0	6/3	6/6	7/0	7/9	8/9	9/9	10/9	12/0	13/6 ..

COPPER WIRE SIEVES.

	8, 10, or 12	14 or 16	18 or 20	24	30	36	42	48	54	60	70 meshes.
8 in. diameter	2/1	2/2	2/3	2/5	2/7	2/9	3/0	3/4	3/9	4/3	5/0 each.
10 " 	2/3	2/6	2/9	3/0	3/3	3/6	3/9	4/2	4/7	5/3	6/0 ..
12 " 	2/7	2/11	3/3	3/7	3/11	4/3	4/7	5/0	5/6	6/3	7/0 ..
14 " 	3/1	3/5	3/9	4/1	4/5	4/9	5/4	5/11	6/6	7/3	8/3 ..
16 " 	3/8	4/0	4/4	4/8	5/0	5/6	6/0	6/9	7/6	8/3	9/6 ..
18 " 	4/4	4/8	5/0	5/4	5/9	6/3	6/9	7/6	8/6	9/6	10/9 ..
20 " 	5/0	5/4	5/8	6/0	6/6	7/0	7/9	8/6	9/6	10/9	12/0 ..
22 " 	5/8	6/0	6/4	6/9	7/3	8/0	9/0	10/0	11/0	12/3	13/6 ..
24 " 	6/6	7/0	7/6	8/0	8/9	9/6	10/6	11/6	12/9	14/0	15/6 ..

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

GALVANIZED IRON MANUFACTURES.

Dis- count.	No.	Galvanized and Galvanized Tinned Corrugated Sheet Iron—										Triangle Brand, Galvanized.	
		Best Best Crown Galvanized Tinned.		Best Crown Brand Galvanized, 2, 3, 4, 5, and 9½ in. corrugations.									
		12	14	16	18	20	22	24	26	28	W.G.		

Extra charges on Galvanized Corrugated Sheet Iron.

For Sheets exceeding 36 in. wide, before corrugating, 8 ft. by 26 W.G., 9 ft. by 24 Wire Gauge.

Curving..... 9 ft. by 26 „ 10 ft. by 24 „

Punching

3 in. Corrugations only kept in stock, and always sent, unless specially ordered otherwise.

REFERENCE TABLE OF WEIGHTS.

Gauge.	Sq. feet per ton, about	Weight per sq. foot, about	Gauge.	Sq. feet per ton, about	Weight per sq. foot, about	Gauge.	Sq. feet per ton, about	Weight per sq. foot, about
14	600	60 oz.	20	1327	27 oz.	26	2240	16 oz.
16	815	44 „	22	1558	23 „	28	2978	12 „
18	1050	34 „	24	1900	19 „			

To arrive at the close approximate Superficies of Sheets when Corrugated, deduct one-fifth from the above quantities.

Galvanized Iron Pipes and Gutters, Ridging, Nails, Screws, &c., supplied.

CROWN BRAND FLAT GALVANIZED SHEET IRON, for working.

Best Galvanized, Tinned, Annealed.		Best Best Galvanized, Tinned, Annealed.		Best Charcoal Galvanized, Tinned, Annealed.	
12 to 14 W.G.	17 and 18 W.G.	21 and 22 W.G.	25 and 26 W.G.		
15 and 16 „	19 and 20 „	23 and 24 „			

PACKING CASES.

Strong Iron-clamped Skeleton, to hold ½ ton, Lined with Zinc, to hold ½ ton,
Close „ „ Felt, „ „

PATENT GALVANIZED IRON TILES.

23 and 24 W.G.	3 ft. by 2 ft. or 3 ft. by 2½ ft. 25 and 26 W.G.	27 and 28 W.G.	} Crown.
	Strong Iron-bound Skeleton Cases.		

TINNED SHEET IRON.

12 to 14 W.G.	17 and 18 W.G.	21 and 22 W.G.	25 and 26 W.G.
15 and 16 „	19 and 20 „	23 and 24 „	27 and 28 „

GALVANIZED TINNED O.G., AND HALF-ROUND GUTTERS,

Have an advantage over Cast Iron Gutters for cheapness, non-liability to break, convenience of packing for export, and lightness. They can be fixed with great facility.

	3	3½	4	4½	5	6 in.	
Half-round Double Bead (Slip Jointed)....	5d.	6d.	7d.	8d.	9d.	10d.	per foot.
Elbows for ditto	1/8	2/0	2/4	2/8	3/0	3/8	each.
O.G. Moulded Gutter	8d.	9d.	10d.	11d.	1/1	1/4	per foot.
Elbows for ditto	3/6	3/6	4/0	4/6	5/0	5/8	each.

In fixing the Moulded O.G. and Half-round Gutters no solder is necessary, but the joints should be packed with Red and White Lead, to make it secure.

Mounted Brackets for fixing H.R. Gutters, 7d. per lb.; Loose Stop Ends, 3/0 per doz.

	4	5	6 in.
Spikes and Tubes for fixing O.G. Gutters.....	18/0	20/0	22/0 per gross.
Moulded Gutters and Heads made to any design; Galvanized Iron and Zinc Mouldings, Cornices, Flashings, &c., to any section.			

GALVANIZED TINNED RAIN WATER PIPES, &c.

	1½	2	2½	3	3½	4	4½ in.	
Rain Water Pipe	5d.	6d.	7d.	8d.	9d.	11d.	1/1	per foot.
Shoes	1/6	1/8	1/8	1/10	2/2	2/6	2/10	3/6 each.
O.G. Heads	3/3	3/5	4/0	4/4	4/8	5/0	5/6	6/0 „
Plain Hopper Heads ..	2/6	3/0	3/6	4/0	4/4	4/8	5/0	„

Special Prices sent for a large quantity. These Pipes can be strongly recommended for strength and durability, each Pipe being Galvanized after it is made. They are made by improved machinery, any length up to 8 feet, without a joint, and well adapted for export.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

GALVANIZED IRON PAILS, in various Shapes, adapted specially for Shipment.

Dis- count.	No.		9	10	11	12	13	14	in.
	1A	Galvanized House Buckets, grooved sides, hoop feet	Light, 14/0	16/0	18/0	20/0	22/0	26/0	doz.
		Ditto ditto ditto	Strong, 18/0	20/0	24/0	28/0	32/0	36/0	..
		With ring at bottom instead of hoop, and twisted bail, 2/0 per doz. extra, net.							
			10	11	12	12½	13	14	in.
	2A	Galvanized House Buckets, rivetted sides, hoop feet, forged ears	Light, 20/0	24/0	28/0	30/0	32/0	36/0	doz.
		Ditto ditto ditto	Strong, 30/0	32/0	36/0	39/0	42/0	48/0	..
	2½A	Very Strong Stable Buckets, rivetted sides, strong welded feet, forged ears, suitable for heavy work	24 Gauge ..	38/0	42/0	46/0	52/0	60/0	..
		Ditto ditto ditto	22 ..	44/0	52/0	56/0	60/0	72/0	..
		Ditto ditto ditto	20 ..	50/0	62/0	68/0	72/0	80/0	..
	3A	Well Buckets, grooved sides, hoop feet, and loop bail .....	..	28/0	30/0	32/0	36/0	..	..
		Rivetted sides and bottom, forged ears, loop bail .....	..	40/0	44/0	48/0	52/0	..	..
		Suitable for Ship Buckets, with thimble in ring or swivel, 2/6 per doz. extra, net.							
			10	11	12	12½	13	14	in.
	4A	Strong Stable Buckets, rivetted sides and bottom, forged ears, well adapted for Builders	24 Gauge 34/0	36/0	4 1/0	44/0	48/0	56/0	doz.
		Ditto ditto ditto	22 ..	42/0	50/0	54/0	58/0	70/0	..
		Ditto ditto ditto	20 ..	..	60/0	66/0	70/0	80/0	..
		Lighter Quality, 2/0 per doz. less, net.							
	5A	Strong Strapped Buckets, suitable for Australian market, strapped up sides and across bottom, double or forged ears	Strong, ..	42/0	50/0	54/0	57/0	60/0	..
		Ditto ditto ditto	Light, ..	34/0	36/0	38/0	40/0	48/0	..
	6A	Extra Strong Rivetted Galvanized Buckets, with ring at bottom, for very heavy work .....	..	72/0	76/0	82/0	85/0	90/0	..
	7A	Rivetted Buckets, stamped foot, iron hoop, forged ears, strong, for Contractors' use	48/0	56/0	66/0	..	76/0	88/0	..
			No. 0	1	2	3	4		
	8A	Chamber Pail, with cover, galvanized or tinned	Light, 36/0	42/0	48/0	54/0	66/0	doz.	
		Ditto ditto ditto	Strong, 48/0	54/0	60/0	66/0	72/0	..	
		Japanned, Oak, or other colour, 6d. each, extra.							
			No. 0	1	2	3	4		
	8B	Japanned Iron Slop Pails, brown, green, or red	Light, 34/0	36/0	42/0	48/0	54/0	doz.	
		Ditto ditto ditto	Strong, 40/0	44/0	48/0	56/0	66/0	..	
			10½	11	11½	12	12½	in. diam.	
	9A	St. Alban House Pail, with lid, galvanized or tinned	44/0	48/0	52/0	56/0	60/0	doz.	
		Ditto ditto japanned iron	33/0	34/0	40/0	44/0	48/0	..	
		Galvanized Iron, japanned outside and wrapped up, 4½d. each extra, net; oak japanned, 6d. each extra, net.							
			No. 1	2	3	4			
	9½A	House Pail, galvanized or tinned, without lid	31/0	34/0	38/0	44/0	doz.		
		Painted Oak outside and tipped, 6d. each extra, net.							
			10	11	12	12½	in.		
	10A	Straight Water Pail, galvanized	42/0	48/0	54/0	60/0	doz.		
		Galvanized, Japanned, 6d. extra, net.							
			13	14	15	16	17	18	in.
	11A	Extra Strong Rivetted Galvanized Waterloo Coal Scoop....	..	..	36/0	38/0	42/0	46/0	doz.
	11½A	Waterloo Coal Scoop, galvanized	Best Quality, 30/0	32/0	34/0	36/0	38/0	41/0	..
		Ditto ditto ditto	Second ..	26/0	28/0	30/0	32/0	34/0	..
		Ditto ditto japanned	Best ..	24/0	26/0	28/0	30/0	32/0	..
		Ditto ditto ditto	Second ..	22/0	24/0	26/0	28/0	30/0	..
		Galvanized Iron, japanned outside, 2/0 per doz. extra, net.							
	12A	Coal Hods, galvanized	Best Quality, 28/0	30/0	32/0	34/0	37/0	40/0	..
		Ditto japanned	ditto 22/0	24/0	26/0	28/0	31/0	34/0	..
	13A	Durham Scoop, without hand scoop, galvanized	ditto 35/0	36/0	39/0	42/0	48/0	52/0	..
		Ditto ditto japanned	ditto 29/0	30/0	32/0	34/0	36/0	39/0	..
		Galvanized, japanned outside and packed, 3d. each. extra, net.							
	14A	Hand Scoop, round or square, 7 in., galvanized, 18/0; japanned, 16/0.							
		Ditto ditto 8 in., ditto 20/0; ditto 18/0.							
		Polished Handles, 2/0 per doz. extra, net.							
			13	14	15	16	17	18	in.
	15A	Coal Scoop, best quality, galvanized	28/0	30/0	32/0	34/0	37/0	40/0	doz.
		Ditto ditto japanned	22/0	24/0	26/0	28/0	31/0	34/0	..
		Galvanized, japanned outside and packed, 3d. each, extra, net.							

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis- count.	No.	8 8½ 9 9½ 10 10½ 11 in.															
	16A	STRONG WATER BOWLS, Galvanized or Com. Tinned .. 11/0 11/9 12/6 13/3 14/0 15/0 16/6 doz.															
		Ditto	ditto	Bright Tinned								14/4 15/0 15/9 16/6 17/3 18/6 20/0	„				
		Stained Handles, 6d. per doz. extra, net.															
	17A	SHALLOW WIRED WATER BOWLS, Galvanized or Com. Tinned 8/6 9/3 10/8 12/2 doz.															
		Ditto	ditto	Bright Tinned								10/8 12/2 13/6 15/9	„				
		Stained Handles, 6d. per doz. extra, net.															
	18A	SHALLOW BASINS, Stamped, Curled Edges—															
			9	10	11	12	13	14	15	16	18 in.						
		Galvanized or Common Tinned	5/9	6/1	7/2	7/6	8/11	11/5	14/4	17/10	21/6	per doz.					
		Bright Tinned	6/5	7/2	9/3	10/9	12/3	15/0	17/3	21/6	25/9	„					
			9	10	11	12	13	14	15	16	18 in.						
	19A	DEEP BASINS, Flat Edges, Galv. or Com. Tinned .. 7/2 7/10 8/7 9/3 10/0 13/0 15/9 20/0 24/3 doz.															
		Ditto	ditto	Bright Tinned.....								8/7 10/0 11/6 12/3 14/4 17/3 20/0 24/4 30/0	„				
									2	3	4	quarts.					
	20A	GALVANIZED JUGS															
			13/0	21/0	24/0	per doz.											
			9	10	11	12 in.											
	21A	SOCKET BOWLS, or MANURE JETS, Bound Round, Galvanized															
		Ditto	ditto	ditto	Japanned								2/6 2/10 3/2 3/6 each.				
					Not bound round, 6d. each less, net.								2/2 2/6 2/10 3/2	„			
			9	10	11	12 in.											
	22A	BREWERS' BOWLS, Galvanized															
			20/0	24/0	28/0	33/0	per doz.										
		Wood Handles, extra.															
	23A	GALVANIZED TURNIP SKEPS, Strapped across Bottom—															
		Bushel.	Diameter.	Deep.	Across Bottom.			Light.	Strong.								
		¾	18	11	8			42/0	54/0	per doz.							
		¾	20	13	8½			57/0	70/0	„							
		1	23½	13½	10½			69/0	80/0	„							
		1½	26	14	11½			84/0	96/0	„							
	24A	GALVANIZED VEGETABLE WASHERS, Perforated at Bottom.. Half Bushel															
										56/0	per doz.						
										Three-quarter Bushel	72 0	„					
										One Bushel	83 0	„					
										One & Half Bushel..	100/0	„					
	25A	GALVANIZED WASHING TUBS, Oval and Round—															
			14	16	18	20	22	24	26	28 in.							
		Medium Strength	36/0	44/0	48/0	54/0	62/0	70/0	80/0	92/0	per doz.						
		Very Strong and Strapped across Bottom ..	44/0	52/0	58/0	68/0	84/0	104/0	116/0	130/0	„						
	26A	STRONG GALVANIZED IRON CINDER RIDDLER—															
		Mesh.	16	18	20	22	24	26 in.									
		¾ in.	58/0	70/0	80/0	94/0	106/0	126/0	per doz.								
		½ „	61/6	74/0	84/0	96/0	109/0	128/0	„								
		¼ „	70/0	84/0	94/0	106/0	116/0	138/0	„								
	27A	GALVANIZED WROUGHT IRON FURNACES, Galvanized after made—															
		8	10	12	14	15	16	20	25	30	35	40	45	50	55	60	65
		10/0	10/8	12/10	14/10	16/0	17/0	21/6	25/6	31/0	37/6	42/0	47/0	54/0	59/0	63/0	68/0
							70	75	80	90	100	galls.					
							74/0	78/0	84/0	90/0	107/0						
	28A	WATER or BEER CANS....Galvanized, open, 2 quarts, 2/3; Tinned, Japanned, and Covered, 2/4 each.															
		Ditto	ditto	....	ditto	4	„	2/10;	ditto	ditto	2/10	„				
		Ditto	ditto	....	ditto	5	„	3/3;	ditto	ditto	3/6	„				
		Ditto	ditto	....	ditto	6	„	4/0;	ditto	ditto	4/0	„				
		Ditto	ditto	....	ditto	8	„	5/3;	ditto	ditto	5/4	„				
		Ditto	ditto	....	ditto	10	„	6/6;	ditto	ditto	6/6	„				
		Ditto	ditto	....	ditto	12	„	7/9;	ditto	ditto	7/9	„				
		Galvanized Japanned, extra, net.															

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis- count.	No.		4	6	8	10	12	quarts.
	29A	GALVANIZED BOILER FILLER	40/0	48/0	58/0	68/0	72/0	per doz.
		Japanned, either Red, Green, or Blue, 4/0 per doz. extra, net.						
		Japanned Oak and Tipped, 6d. per doz. extra.						
		Galvanized Eaves, Guttering, Rain Water Pipes, Ridge Caps, &c.						
		All kinds of Buckets, Coal Scoops, &c., &c., Skeps, Sheep and Cattle Troughs, &c.						
		TOILET WARE AND BATHS.						
			4	6	8	10	12	quarts.
30A		TOILET CANS, Galvanized Iron, Japanned Oak	4/6	5/0	5/6	6/6	8/0	each.
		Ditto ditto Bronzed Hoops	5/3	5/9	6/6	7/6	8/6	"
		Ditto ditto Black Hoops	4/9	5/3	5/9	6/9	8/3	"
			No.	1	2	3		
31A		TOILET PAILS, Galvanized Iron, Japanned Oak		6/6	7/6	8/0	each.	
		Ditto ditto Bronzed Hoops		7/6	8/6	9/6	"	
		Ditto ditto Black Hoops		7/0	8/0	9/0	"	
			Diameter across top					
			14	16	18	20	in.	
32A		TOILET FOOT BATHS, Galvanized Iron, Japanned Oak	6/6	7/6	9/6	11/0	each.	
		Ditto ditto Bronzed Hoops	7/6	8/6	10/6	12/0	"	
		Ditto ditto Black Hoops	7/0	8/0	10/0	11/6	"	
			Diameter across top					
			14	16	18	in.		
33A		PLAIN OVAL FOOT BATHS. Wired at Top, Galvanized Iron, Japanned Oak	5/0	6/0	7/6	each.		
		Ditto ditto Black Hoops	5/6	6/6	8/0	"		
34A		GALVANIZED IRON FOOT WARMERS, with Brass Screw, Small, 6/0; Middle, 8/0; Large, 10/0.						
		Carriage Warmers, same price.						
35A		GALVANIZED IRON STOMACH WARMERS, with Brass Screw, made in two sizes, 5/0 and 6/0 each.						
			30	33	38	42	in.	
36A		BEST MOULDED SPONGE BATHS, Galvanized	24/0	26/0	30/0	36/0	each.	
		Painted Oak and White inside. Marbling, 1/3 each extra.						
			26	30	33	38	42	in.
37A		WIRED SPONGE BATHS, Galvanized	17/0	20/0	23/0	26/0	30/0	each.
		Painted Oak and White inside. Marbling, 1/0 each extra.						
			28	32	36	in.		
38A		CHILDRENS' OPEN BATHS, Galvanized	13/9	16/6	20/6	each.		
		Painted Oak and White inside. Marbled, 1/0 each extra.						
			30	33	38	42	45	54
39A		IMPROVED TAPER BATH, Galvanized	20/0	22/0	26/0	32/0	40/0	48/0
		Painted Oak and White inside. Marbled, 1/6 each extra.						
			1	2	3			
40A		HIP or OTTOMAN BATH, Galvanized	28/0	30/0	32/0	each.		
		Painted Oak and White inside. Marbled, 1/0 each extra. With loose feet, for export.						
		Each of the above articles being Galvanized after made, considerable strength and durability is added to them.						
		JAPANNED TRAVELLING BOXES, with Brass Hasp or Inside Lock.:-						
41A			14	16	18	20	22	24
		Galvanized, Best Quality	12/0	15/0	17/0	19/0	21/0	23/0
		Japanned Black, Second Quality	10/0	13/0	15/0	16/0	18/0	20/0
		Best Tumbler Locks, 1/6 each extra, net. Japanned Oak and White inside.						
		1/0 each extra to 18 in. 1/6 each extra to 30 in.						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis- count.	No. 42A	TRAVELLING AND DEED BOXES, with Brass Hasp or Inside Lock—									
			14	16	18	20	22	24	26	28	30 in.
		Galvanized, best quality.....	11/0	14/0	16/0	18/0	20/0	22/0	24/0	27/0	34/0 each.
		Japanned Black, second quality	9/0	12/0	14/0	16/0	18/0	20/0	22/0	25/0	31/0 „
		Best Tumbler Locks, 1/6 each extra, net. Japanned Oak and White inside.									
		1/0 each extra, to 18 in. 1/6 each extra, to 30 in.									
			12	14	16	18	20	in.			
43A		JAPANNED BONNET BOXES, Galv'd, best quality, Jap'd Oak ..	8/6	9/6	10/6	12/6	17/0	each.			
		Ditto ditto second quality, Jap'd Black ..	7/0	8/0	10/0	13/0	15/0	„			
		Brass Padlocks, 2/0 each extra.									
44A		TRAVELLING BATHS, with best Leather Strap and Hasp, for Padlocks—									
			24	27	30	33	36	in.			
		Best Quality Oak and Marbled Inside	32/0	37/0	42/0	46/0	52/0				
			4 × 1½	4½ × 1½	4½ × 1½	4½ × 1½	5 × 1½	5 × 1½	5 × 2	5½ × 1½	in.
45A		JAP'D BOX CLIPS, Square Ends..	1/6	1/7	1/9	1/11	2/0	2/0	1/11	2/0	per gross.
			5½ × 1½	5½ × 2	6 × 1	6 × 1½	6 × 1½	6 × 2	6½ × 1	7 × 1	in.
46A		Ditto Round Ends..	2/0	2/2	1/4	2/0	2/0	2/4	1/4	1/6	per gross.
							5 × 1½	5 × 2	5½ × 1½	6 × 2	in.
46A		Ditto Angular.....	2/6	2/10	3/0	3/4	per gross.				
		Without Holes, 1/4 per gross less.									
			2½ × 1	3 × 1	3½ × 1	4 × 1	4½ × 1	5 × 1	in.		
47A		Ditto Angular Top or Bottom	12/0	14/0	16/0	18/0	20/0	24/0	per gross.		
49A		GALVANIZED WATERING CANS, Japanned, Green or Red outside—									
			2	3	4	6	8	12	16	20	quarts.
			2/0	2/6	3/2	4/0	4/10	6/0	8/0	9/6	each.
		Ditto Galvanized only, not painted	1/8	2/2	2/8	3/6	4/2	5/4	7/0	8/6	„
50A		Zinc Garden Syringes, 3/0 and 4/0 each.									
51A		SWING WATER CARRIERS, on Wheels, of Galvanized Iron, and Painted Inside and Out, with Spreader. Very useful for filling watering pots, and charging syringes, also for watering lawns and gravel walks; a top, with perforated Spreader, being readily attached, 30/0 extra—									
		To contain	15	20	30	40	50	60	gallons.		
			35/0	40/0	50/0	60/0	70/0	80/0	each.		
52A		PORTABLE GALVANIZED IRON BOILERS, on Wheels, suitable for Pitch, Tar, Asphalte, &c.—									
			10	14	18	20	25	30	gallons.		
		Boiler and Furnace, complete	28/0	34/0	40/0	43/0	48/0	54/0			
		Galvanized Iron Steamer, for Vegetable Boilers ..	10/0	12/6	15/0	17/0	19/6	22/0			
		The Lid of the Steamer fits the Boiler.									
53A		IMPROVED GARDEN ENGINES, with Strong Galvanized Iron Tub, on Cast Iron Wheels—									
		To hold	10	12	16	20	24	30	gallons.		
			£2 15s.	£3 5s.	£3 15s.	£4 10s.	£5 0s.	£5 10s.			
		Japanned, Green and Black Hoops, 2/0 each extra, net.									

Galvanized Pails, Skeps, Bowls, Riddles, Washing Tubs, Jets, &c.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

Dis-
count. No.
54A

**STRONG GALVANIZED OPEN RECTANGULAR TANKS,
WITH ANGLE IRON ROUND TOP,**
FOR HOT AND COLD WATER, made to any shape or size required. WITH MANHOLE AND LID,
Steamtight. Special Prices forwarded upon application.

Open Cisterns with Angle Iron round top and bottom and up sides—

LENGTH.		WIDTH.		DEPTH.		THICKNESS.	CONTENTS.	PAINTED.	GALVANIZED.
ft.	in.	ft.	in.	ft.	in.	in.	gallons.	£ s. d.	£ s. d.
2	7	2	7	2	7	$\frac{1}{8}$	100	2 10 0	3 5 0
3	3	3	3	3	3	..	200	3 10 0	5 15 0
3	7	3	7	3	7	..	300	4 10 0	6 5 0
4	1	4	1	4	1	..	400	5 10 0	7 10 0
5	0	4	0	4	0	$\frac{3}{8}$	500	8 5 0	11 10 0
6	0	4	0	4	0	..	600	9 5 0	12 15 0
7	0	4	0	4	0	..	700	10 5 0	14 5 0
8	0	4	0	4	0	..	800	11 5 0	15 10 0
9	0	4	0	4	0	..	900	12 5 0	17 10 0
6	0	6	0	5	0	..	1000	13 15 0	19 10 0
8	0	8	0	3	9	..	1500	16 5 0	22 10 0

Different measurements of equal contents, about the same prices.

Open Cisterns, rivetted up sides and round bottom.

LENGTH.		WIDTH.		DEPTH.		CONTENTS.	GALVANIZED.
ft.	in.	ft.	in.	ft.	in.	gallons.	£ s. d.
2	0	1	6	1	6	30	1 2 6 each.
2	6	1	8	2	0	50	1 8 6 "
3	4	1	10	2	0	75	1 18 0 "
3	6	2	3	2	0	100	2 5 0 "
3	9	2	8	2	1	125	2 15 0 "
3	10	2	7	2	6	150	3 5 0 "

Cisterns of the above sizes are made without waste of material, so the prices are as low as possible, but these prices cannot be charged unless the sizes are adhered to.

SHIP TANKS, OIL TANKS, TANKS FOR OIL REFINERS, &c.

55A **GALVANIZED CORN BINS, Circular, with Cover, Hasp, and Hinges—**

4 Bushels, size,	1 ft. 9 in. diam. × 2 ft. 3 in. deep,	£1 7 6 each.
6 "	1 ft. 11 in. " × 3 ft. 0 in. "	£1 12 6 "
8 "	2 ft. 2 in. " × 3 ft. 0 in. "	£1 18 0 "
12 "	2 ft. 6 in. " × 3 ft. 4 in. "	£2 3 0 "

56A **GALVANIZED CORN BINS, Rectangular, with Straight Cover, Hasp, and Hinges, Front Corners Rounded off—**

	Length.		Width.		Depth at Back.	Without Partition.	With one Partition.
	ft.	in.	ft.	in.	ft. in.	£ s. d.	£ s. d.
4 Bushels, size	2	0	1	6	2 0	1 11 6	1 14 6 each.
6 "	2	6	1	8	2 0	1 15 6	1 19 0 "
8 "	2	9	1	11	2 0	2 0 0	2 3 6 "
12 "	3	0	2	4	2 6	2 4 6	2 9 0 "

57A **WROUGHT IRON WHEELBARROWS, with Wrought Iron Wheels.**

This article is made in two sizes, No. 1 being the size for general purposes, and No. 2, with a larger body, to hold stable manure, being the size used for stable purposes, &c. It is made entirely of wrought iron, including the wheel; is put together very firm, and so as to be very light in hand when in use, and will be found much superior in all respects to a wooden barrow. It is made for exportation, so as to be taken to pieces, and can be put together in a few minutes, and as firm as though it had been rivetted at the works.

Size No. 1, Japanned, £1 3 0; Galvanized, £1 9 0 each.
" 2, " £1 12 6; " £2 2 6 "

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

PAINT AND NAIL KEGS.

Dis- count.	No.								
	58A & 59A	Diam.	Depth.	Price.	Diam.	Depth.	Price.	Diam.	Depth.
		In.	In.		In.	In.		In.	In.
		5	× 4	11d.	7	× 10	1/2	9	× 12
		5	× 5	11d.	7	× 11	1/2	9	× 13
		5	× 6	11d.	7	× 12	1/3	9	× 14
		5	× 7	11d.	7	× 13	1/3	9	× 15
		5	× 8	11d.	7½	× 9	1/5	9	× 16
		5	× 9	11d.	7½	× 10	1/5	10	× 10
		6	× 7	1/0	7½	× 11	1/5	10	× 11
		6	× 8	1/0	7½	× 12	1/6	10	× 12
		6	× 9	1/0	7½	× 13	1/6	10	× 13
		6	× 10	1/0	7½	× 14	1/6	10	× 14
		6½	× 8	1/1	8	× 10	1/7	10	× 15
		6½	× 9	1/1	8	× 11	1/7	10	× 16
		6½	× 10	1/1	8	× 12	1/8	10	× 17
		6½	× 11	1/1	8	× 13	1/8	10	× 18
					8	× 14	1/9		
					8	× 15	1/9		
		11	× 12	3/6	11	× 13	3/6	11	× 14
		11	× 15	3/9	11	× 16	3/9	11	× 17
		11	× 18	4/0	12	× 13	4/4	12	× 14
		12	× 15	4/4	12	× 16	4/6	12	× 17
		12	× 18	4/6	12	× 19	4/9	12	× 20
		12	× 21	5/0	12	× 22	5/0		

No.	Diam. In.	Depth. In.	Price.	No.	Diam. In.	Depth. In.	Price.
1	9	11	1/6	16	12½	16½	2/7
2	9	12	1/6	17	12	17½	2/7
3	9	13	1/6	18	12½	19	2/10
4	9	14	1/7	19	12½	20½	2/10
5	9	15	1/7	20	14	18	2/10
6	10	13½	1/9	21	14	19½	3/4
7	10	14½	1/9	22	14	20½	3/4
8	10	16	1/10	23	14	21½	3/7
9	10	17	1/10	24	14	23	3/7
10	10	18	2/0	25	14	24½	3/11
11	11	16	2/0	26	14	25½	3/11
12	11	17	2/3	27	15	23½	4/3
13	11	18	2/3	28	15	24½	4/3
14	11	19	2/3	29	15	25½	4/6
15	12½	15½	2/1	30	15	26½	4/6

60A BAKING PLATES.

61A RICE BOWLS, with Handles or without, PRICE per ton, according to Price of Iron, on application.

62A GALVANIZED DRY MEASURES, Adjusted and Stamped :—

½ Pint Pint. Quart. ½ Peck. ½ Peck. Peck. ½ Bushel. Bushel.

Wrought Iron Sheep & Cattle Troughs, Cisterns, Corn Bins, Servers,
Measures, Turnip Skips, Watering Pots, Ladles, Jets, &c.

63A IMPROVED EXTRA STRONG GALVANIZED IRON CISTERNS:—

	To hold	100	150	200	300	gallons.
Galvanized	1/1	1/0	11d.	9d.	per gallon.	
Painted	10d.	9d.	8d.	6d.	"	

64A IMPROVED GALVANIZED CORRUGATED IRON PIG TROUGHS, with strong Division Bars every 12 inches :—10 feet long by 14 inches wide, 64/0 5 feet long by 14 inches wide, 36/0

8 " 14 " 54/0 4 " 14 " 29/0
7 " 14 " 48/0 3 " 14 " 27/6
6 " 14 " 42/0

65A DITTO, 6 " 15 " with two Cross Bars, but no Hand Rail, 40/0 each.
8 " 15 " with Handle at each end 60/0 "
10 " 15 " ditto ditto 72/0 "

Any of the above, mounted on Wheels, 5/0 per Trough extra.

66½A GALVANIZED SEED HOPPERS, No. 1, 7/0 each; No. 2, 8/0 each.

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

GALVANIZED AND TINNED IRON SUGAR WORK.

Special Prices forwarded for all kinds of Sugar Work.

66A	SUGAR FUNNEL.						
67A	SUGAR BOWL.						
68A	SUGAR SKIMMER.						
69A	STRONG SKIMMERS, perforated	5	6	7	inch.		
		12/0	14/0	16/0	per doz.		
70A	STRONG SUGAR LADLES	4	4½	5	5½	6	inch.
		12/0	14/0	16/0	18/0	20/0	per doz.

PATENT METALLIC CASKS & DRUMS,

FOR CONTAINING PETROLEUM, TURPENTINE, NAPHTHA, AND OTHER OILS.

The attention of Merchants, Shippers, and others, are respectfully directed to these METALLIC CASKS and DRUMS, which have been in use now some years, during which time they have been taken, with other cargo, by several of the largest Ship Owners, as also by Railway Companies, and in every case without a complaint.

These Casks are specially suited for Petroleum (both crude and refined), Turpentine, Naphtha, and every description of Oils. They are made of the best materials and workmanship, and are tested by steam pressure of 10 lbs. to the square inch.

They are made with Tight and Loose Covers, and Brass Screw Bungs and Taps. The latter are movable, and a Screw Plug is made to fit the place, so that one Tap will do for any number of Cisterns.

Gallons.	Diameter. Inch.	Height. Inch.	Open.	With Fixed Cover and Brass Screw Bung.	Brass Bib Cocks. Inch. Each.
20	17	24	22/6	30/6	½ 4/0
30	20	27	31/0	40/0	¾ 6/0
40	22	30	38/0	47/0	1 11/0
50	24	35	42/6	52/0	
60	25	36	50/0	62/6	
75	28	36	51/0	69/0	
90	30	36	63/0	76/0	
100	30	40	69/0	83/0	
150	36	42	93/0	110/6	

Special Prices
for
any other size.

Other sizes of Round Cisterns made to order, but the prices cannot in all cases be regulated by the above.

76A IMPROVED METALLIC OIL DRUMS, for Oil, Naphtha, Turpentine, and other Spirits. Being a most convenient method for transit. Can be had with Brass Screw Bung, if required, at 1/ each extra.

	2	4	5	6	7	8	10	12	Galls.
Painted any colour....	4/6	5/4	6/0	8/0	10/0	11/0	13/0	16/0	each.

For Oil and White Lead Merchants—Patent Iron Drums, Cans, and Kegs.

For Oil, Turpentine, and Naphtha Stores—Cisterns and Tanks, Sheet Iron Measures, Cans, Fillers, &c.

Iron Casks and Tanks suitable for packing goods for shipment, and which can afterwards be used for securely carrying Oils, Tallow, or any produce for the package of which wood casks have hitherto been used at a great loss to the importer from leakage, &c.

OIL CISTERNS MADE IN ANY SHAPE. Special Prices.

		1	2	3	4	5	6	8	10	12	Galls.
77A	GALVANIZED OIL CANS, Grooved Sides	4/0	4/6	5/6	8/6	9/6	11/0	13/0	15/0	17/0	each.
	Strong Rivetted Sides	5/0	5/6	6/6	9/6	10/6	13/0	15/0	17/0	19/0	„
78A	Ditto OIL MEASURES, Imperial..	Pint, 1/0;	Quart, 1/6;	Gallon, 2/6	each.						
79A	Ditto ditto with Spout, do. ..	do. 1/6;	do. 2/6;	do. 3/6	„						
80A	Ditto IRON FUNNELS	do. 1/0;	do. 1/4;	do. 2/6	„						
81A	Ditto IRON OIL FILLERS	Pint, 2/0;	1½ Pint, 3/0;	2 Pints, 4/0	each.						

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.

SAUCEPAN COVERS, AND POTATO STEAMERS.

No.	00	0	1	2	3	3x	4	4x	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12
Contents, Pints,	1	1	1	1	2	2	3	3 1/2	4	5	6	7	8	9	10	11	12	14	16	18	20
Bellied Saucepan and Cover, Tinned	11d.	1/0	1/2	1/4	1/2	1/9	1/11	2/1	2/2	2/5	2/8	2/11	3/1	3/4	3/6	3/10	4/1	4/4	4/7	4/10	5/1 each.
Bellied Open Saucepan, Tinned	7d.	8d.	10d.	1/0	1/2	1/4	1/6	1/8	1/9	1/11	2/2	2/5	2/7	2/10	3/0	3/3	3/6	3/9	4/0	4/3	4/6
Ditto Untinned	5d.	6d.	8d.	10d.	11d.	1/0	1/2	1/3	1/5	1/8	1/10	2/0	2/2	2/4	2/7	2/9	3/0	3/0	3/3	3/6	3/9
Upright Op-n Saucepan, Tinned	7d.	8d.	10d.	1/0	1/2	1/4	1/6	1/8	1/9	1/11	2/2	2/5	2/7	2/10	3/0	3/3	3/6	3/9	4/0	4/3	4/6
Ditto Untinned	5d.	6d.	8d.	10d.	11d.	1/0	1/2	1/3	1/5	1/8	1/10	2/0	2/2	2/4	2/7	2/9	3/0	3/0	3/3	3/6	3/9
Bellied Open Lipped Saucepan, Tinned	8d.	9d.	11d.	1/1	1/3	1/5	1/7	1/9	1/11	2/2	2/5	2/8	2/11	3/2	3/5	3/8	3/11	4/3	4/6	4/9	5/1
Upright ditto	8d.	9d.	11d.	1/1	1/3	1/5	1/7	1/9	1/11	2/2	2/5	2/8	2/11	3/2	3/5	3/8	3/11	4/3	4/6	4/9	5/1
Saucepan Cover only.....	4d.	4d.	4d.	4d.	5d.	5d.	5d.	5d.	5d.	6d.	6d.	6d.	6d.	6d.	6d.	7d.	7d.	7d.	7d.	7d.	7d.
Lipped Saucepan Cover only	5d.	5d.	5d.	5d.	6d.	6d.	6d.	6d.	6d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.	7d.
Potato Steamer, Block Tin . . . . .	..	..	..	..	..	..	..	..	2/0	2/2	2/2	2/3	2/3	2/3	2/5	3/0	3/6	3/9	3/9	3/9	3/9

All the above Saucepans are always sent with Plugged Handles, unless ordered with Rivetted Handles.

ROUND FRONT-HANDLE SAUCEPANS AND COVERS,

WITH THE FRONT HANDLES REVITTED ON, or WITH FRONT HANDLES CAST ON & JAPANNED. In ordering Front Handle Saucepans, say which is required.

	No.	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12	12x	13	13x	14	15	15x	16	16x	17	18	19	19x	20
Contents,	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Tinned	2/8	2/11	3/2	3/6	3/10	4/1	4/3	4/7	4/10	5/3	5/6	5/9	6/0	6/3	6/6	6/9	7/0	7/6	8/3	9/0	9/3	10/6	11/6	12/6	13/6	14/6	15/6
Untinned	2/3	2/6	2/9	3/0	3/3	3/6	3/9	4/1	4/3	4/6	4/9	4/10	5/0	5/3	5/6	5/9	6/0	6/6	7/0	7/6	8/3	9/0	10/0	11/0	12/0	13/0	14/0

OVAL FRONT-HANDLE SAUCEPANS AND COVERS.

	No.	0000	000	00	00x	0	0x	0xx	1	1x	2	2x	2xx	3	3x
Contents,	1	1	1	1	1	2	2	2	3	3	4	4	5	5	6
Tinned	4/0	4/4	4/9	5/0	5/6	5/9	6/0	6/6	6/6	7/6	9/0	9/9	10/6	11/3	12/0
Untinned	3/5	3/8	4/0	4/3	4/9	4/11	5/0	5/6	5/6	6/6	7/6	8/3	9/0	9/6	10/6

TEA KITCHENS, WITH LONG BRASS COOKS.

	No.	000	00	0	1	1x	2	2x	3	3x	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Contents,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tinned	10/3	11/0	12/0	13/3	14/0	14/9	15/6	16/3	17/0	17/9	18/6	19/3	20/0	20/9	21/6	22/3	23/0	23/9	24/6	25/3	26/0	26/9	27/6	28/3	29/0	29/9	30/6
Untinned	9/3	10/0	11/0	11/9	12/6	13/0	13/9	14/6	15/0	15/9	16/3	16/12	17/0	17/9	18/6	19/3	20/0	20/9	21/6	22/3	23/0	23/9	24/6	25/3	26/0	26/9	27/6

If with Lock Cocks, 1/0 each extra. If with Lock Cocks and Strap over Cover, to lock Cover on, 2/0 each extra.

TEA KITCHENS, with two Bow Handles instead of Bail, same sizes and prices as above.

Dia.
count.

TINNED CAST IRON HOLLOW WARE.—Continued.

BELLIED ROUND POTS AND COVERS,

CIRCULAR BOW HANDLES, WITH TINNED BOWS RIVETTED ON; CIRCULAR BOW HANDLES, WITH BOWS CAST ON AND JAPANNED; ELLIPTIC BOW HANDLES; BAIL HANDLES, WITH CAST EARS; AND BAIL HANDLES, WITH WROUGHT IRON EARS RIVETTED ON, are all the SAME PRICES as below. BAIL HANDLE POTS always sent with CAST EARS, unless ordered otherwise.

No.	00	0	1	2	3	3x	4	4x	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12	12x	13	13x
Contents,	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
Tinned	.....	1/1	1/1	1/3	1/5	1/8	1/10	2/0	2/2	2/3	2/6	2/8	2/10	3/0	3/4	3/6	3/9	4/0	4/6	4/9	5/3	5/9	6/3	6/7
Untinned	..	11d.	11d.	1/1	1/3	1/5	1/6	1/8	1/9	1/10	1/11	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/0	4/6	4/9	5/0	5/6
No.	14	15	15x	16	16x	17	18	19	19x	20	20x	21	21x	22	23	24	25	26	26x	27	28	29	30	30
Contents,	$\frac{3}{4}$	$\frac{4}{4}$	$\frac{4}{4}$	$\frac{5}{4}$	$\frac{5}{4}$	$\frac{6}{4}$	$\frac{7}{4}$	$\frac{8}{4}$	$\frac{9}{4}$	$\frac{10}{4}$	$\frac{11}{4}$	$\frac{12}{4}$	$\frac{13}{4}$	$\frac{14}{4}$	$\frac{15}{4}$	$\frac{16}{4}$	$\frac{18}{4}$	$\frac{20}{4}$	$\frac{22}{4}$	$\frac{24}{4}$	$\frac{26}{4}$	$\frac{28}{4}$	$\frac{30}{4}$	
Tinned	....	6/10	7/6	8/3	9/0	9/9	10/6	11/6	12/6	13/6	14/6	16/6	18/0	20/0	21/0	23/0	26/0	31/0	35/0	39/0	43/0	48/0	52/0	56/0
Untinned	..	6/0	6/6	7/0	7/6	8/3	9/0	10/0	11/0	12/0	13/0	14/0	14/6	15/6	18/0	20/0	22/0	25/0	28/0	31/3	34/8	38/0	42/9	46/0

UPRIGHT, OR SOUP POTS AND COVERS,

BAIL HANDLES, WITH CAST EARS; CIRCULAR BOW HANDLES, WITH TINNED BOWS RIVETTED ON; CIRCULAR BOW HANDLES, WITH BOWS CAST ON, and JAPANNED; ELLIPTIC BOW HANDLES, all the SAME PRICES as below.

No.	1	2	3	3x	4	4x	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12	13	14	15	15x	16	16x	17	18
Contents,	1	1½	2	2½	3	3½	4	5	6	7	8	9	10	11	12	14	15	2	2½	3	3½	4	4½	5	5½	6	7
Tinned	1/3	1/5	1/8	1/10	2/0	2/2	2/3	2/6	2/8	2/10	3/0	3/4	3/6	3/9	4/0	4/6	4/9	5/3	5/9	6/3	6/10	7/6	8/3	9/0	9/9	10/6	11/6
Untinned	1/1	1/3	1/5	1/6	1/8	1/9	1/10	1/11	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/0	4/6	4/9	5/6	6/0	6/6	7/0	7/6	8/3	9/0	10/0

RUMFORD, OR FLANGE POTS,

WITH WROUGHT IRON TINNED BOWS RIVETTED ON; WITH BOWS CAST ON, and JAPANNED, all the SAME PRICES as below.

No.	00	0	1	2	3	4	5	5x	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Contents,	5	6	7pts.	1	1½	1½	1¾	2	2¼	3	3½	4	4½	5	6	7	8	8¾	9	9½	10	10½	11	12	13
Tinned	2/6	2/9	3/0	3/6	4/0	4/6	5/0	5/3	5/6	6/3	7/0	7/9	8/6	9/6	11/0	12/0	13/0	14/0	15/0	16/0	17/0	18/0	19/0	21/6	23/0

OVAL POTS AND COVERS,

BAIL HANDLES, WITH EARS CAST ON; BAIL HANDLES, WITH WROUGHT IRON EARS RIVETTED ON; BOW HANDLES, WITH TINNED WROUGHT IRON LOWS RIVETTED ON; BOW HANDLES, WITH BOWS CAST ON, and JAPANNED, all the SAME PRICES as below.

No.	00	00000	00000	0000	00	00x	0	0x	0xx	1	1x	2	2x	2xx	3	3x	4	5	5x	6	6x	7	8	9
Contents,	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{4}{4}$	$\frac{4}{4}$	$\frac{5}{4}$	$\frac{6}{4}$	$\frac{7}{4}$	$\frac{8}{4}$	$\frac{9}{4}$	$\frac{10}{4}$	$\frac{11}{4}$	$\frac{12}{4}$	$\frac{13}{4}$	$\frac{16}{4}$
Tinned	3/3	3/6	4/0	4/6	4/9	5/3	5/6	5/9	6/0	6/6	7/6	9/0	9/4	10/6	11/3	12/0	13/0	15/0	16/6	18/0	19/0	20/0	23/0	29/0
Untinned	2/6	2/9	3/0	3/3	3/7	3/10	4/0	4/6	5/0	5/6	6/6	7/9	8/3	9/3	9/9	10/6	11/6	13/0	14/0	15/6	16/0	19/0	25/0	"

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.—Continued.

UPRIGHT OVAL POTS AND COVERS,

BAIL HANDLES, WITH CAST EARS; BOW HANDLES, WITH TINNED WROUGHT IRON BOWS RIVETTED ON, all the SAME PRICE as below.

	1½	2	2½	3	3½	4	4½	5	6
Tinned	4/9	5/6	6/0	6/6	7/6	9/0	9/9	10/6	12/0
Untinned	3/7	4/0	5/0	5/6	6/6	7/9	8/3	9/3	10/6

BOW HANDLES, WITH TINNED WROUGHT IRON BOWS RIVETTED ON, AND TWO 1-PINT SAUCEPANS AND COVERS FITTED INTO COVER.

Tinned	3	3½	4	4½	5	6
	8/9	9/0	11/6	12/3	14/3	16/0

GROG OR STEW POTS AND COVERS,

WITH CIRCULAR BOW HANDLES; WITH ONE ELLIPTIC OR JUG HANDLE; WITH TWO ELLIPTIC OR JUG HANDLES, all the SAME PRICES as below.

No.	16°	15°	14°	13°	12°	11°	10°	9°	8°	7°	6°	5°	4°	3°	00	0	0x	1	2	3	4	5	6	7	8	9	10	11	12
Contents, 1	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½
	1/0	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	2/0	2/3	2/6	2/9	3/3	3/6	3/9	4/3	4/6	5/6	6/6	7/0	7/6	9/6	12/0	12/0	12/0	12/0

ROUND TEA KETTLES AND COVERS,

FLAPPED IRON HANDLES; SNUGED IRON HANDLES; DROP IRON HANDLES; BARREL HANDLES, MALLEABLE IRON or BRASS, all the SAME PRICES as below.

No.	0000	000	00	0	1	2	3	3x	4	4x	5	6	7	8	9	10	11	12
Contents, 2½	2/4	2/6	2/9	3/0	3/3	3/6	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/6	9/6	10/6	11/6
Tinned	2/4	2/6	2/9	3/0	3/3	3/6	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/6	9/6	10/6	11/6
Untinned	1/6	1/8	1/10	2/0	2/2	2/9	3/3	3/6	3/9	4/3	4/9	5/9	6/6	7/6	8/6	9/6	10/0	10/6
Tinned	2/7	2/9	3/0	3/3	3/6	4/0	4/9	5/3	5/9	6/3	6/9	8/0	8/9	9/9	10/9	11/9	12/4	13/0
Untinned	1/7	1/10	2/0	2/3	2/6	3/0	3/6	4/0	4/6	5/0	5/6	6/0	6/9	7/9	8/9	9/9	10/3	10/9
Malleable Iron Handles, Tinned	2/8	2/10	3/1	3/4	3/7	4/3	5/0	5/6	6/0	6/6	7/0	8/0	9/3	10/3	11/3	12/3	13/0	13/6
Ditto Untinned	1/10	2/0	2/3	2/6	3/0	3/6	4/0	4/6	5/0	5/6	6/0	6/6	7/3	8/3	9/3	10/3	10/9	11/3
Brass Handles, Tinned	3/4	3/9	4/0	4/3	4/6	5/0	5/6	6/0	6/6	7/1	7/7	8/1	9/6	10/6	11/6	12/6	13/6	14/0

If with Untinned Cast Iron Covers, same prices as above. If with Tinned Cast Iron Covers, all sizes, 3d each extra. The above are always sent with Wrought Iron Tinned Covers, unless ordered with Cast Covers, in which case Covers are sent Tinned, with Tinned Kettles, unless ordered Untinned.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.—Continued.

OVAL TEA KETTLES AND COVERS,

FLAPPED IRON HANDLES; SNUGED IRON HANDLES; DROP IRON HANDLES; BARREL HANDLES, MALLEABLE IRON or BRASS; all the SAME PRICES as below.

	No. 00	0	1	2	3	4	5	6	7	8	9	10	pints.
Tinned.....	3/3	3/6	3/9	4/3	5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/6	10 pints.
Untinned.....	1/10	2/0	2/2	2/9	3/3	3/6	3/9	4/3	4/9	5/9	6/6	7/6	12 pints.
Tinned.....	3/6	3/9	4/0	4/6	5/3	5/9	6/3	6/9	7/3	8/6	9/3	10/3	"
Untinned.....	2/0	2/3	2/5	3/0	3/6	3/9	4/0	4/6	5/0	6/0	6/9	7/9	"
Malleable Iron Handles, Tinned.....	3/7	3/10	4/1	4/9	5/6	6/0	6/6	7/0	7/6	8/6	9/9	10/9	"
Ditto Untinned.....	2/2	2/4	2/6	3/3	3/9	4/0	4/3	4/9	5/3	6/3	7/3	8/3	"
Brass Handles, Tinned.....	4/6	4/9	5/0	5/6	6/6	7/0	7/7	8/1	8/7	10/0	11/0	12/0	"

If with Untinned Cast Iron Covers, same prices as above. If with Tinned Cast Iron Covers, all sizes, 3d. each extra. The above are always sent with Wrought Iron Tinned Covers, unless ordered with Cast Covers, in which case Covers are sent Tinned, with 1 Tuned Kettles, unless ordered Untinned.

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SCOTCH PATTERN TEA KETTLES,

ROUND HANDLES and SQUARE HANDLES, both SAME PRICES as below. Round Handles always sent when orders do not describe otherwise.

	No. 00	0	1	2	3	4	5	6	7
Tinned.....	3/0	3/2	3/6	3/10	4/8	5/2	5/10	7/0	8/6
Untinned.....	2/1	2/2	2/6	2/10	3/5	4/5	5/0	7/0	"

BELL-MOUTHED MORTARS AND PESTLES.

No. 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
Diameter of Top, 3/4	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
Contents.....	1/1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
Black.....	1/1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
Tinned.....	1/1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
Untinned.....	1/4	1/6	2/0	2/3	2/9	3/6	4/3	5/0	6/3	8/0	9/9	12/6	15/0	23/0	29/0	34/0	40/0	45/0	60/0

MARBLE-SHAPED MORTARS AND PESTLES.

No. 1	2	3	4	5	6
Black.....	1/6	2/0	2/6	3/0	3/9
Tinned.....	1/9	2/4	3/0	3/6	4/3
Untinned.....	2/0	2/8	3/5	4/0	4/9

Dis-
count.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.—Continued.

FURNACE BOILERS.

	5	6	7	8	9	10	12	14	16	18	20	25
Tinned	7/6	8/0	9/6	10/9	12/6	13/6	16/6	18/0	20/0	22/0	25/0	31/0 each.
Turned	6/8	7/0	8/4	9/5	11/0	11/10	12/6	15/8	17/4	19/0	21/8	26/8 "

FISH KETTLES AND COVERS AND STRAINERS.

No.	000	0	0x	1	2	3	3x	4	4x	5	6	7	8
Length, 12	13	14	15	16	17	18	19	20	21	22	24	26	28
With Strainers	7/0	7/6	8/0	8/8	9/4	10/8	12/3	13/2	14/0	17/0	23/3	26/6	32/3 each.
Without Strainers	5/6	6/0	6/6	7/0	7/6	8/6	9/9	10/6	11/3	14/0	19/6	22/3	27/6 "

FISH KETTLES, with End Handles, same sizes and prices. The above always sent with Strainers, unless ordered without.

TURBOT KETTLES AND COVERS AND STRAINERS.

	No.	0	1	2	3	4
Length, 16	16	18	20	22	24	26
Breadth, 13½	13½	14½	16	18	20	22
With Strainers	12/6	14/6	17/0	22/6	27/6	32/6
Without Strainers	10/6	12/0	14/0	19/0	23/0	28/0

TURBOT KETTLES, with End Handles, same sizes and prices. The above always sent with Strainers, unless ordered without.

FRENCH STEW PANS AND COVERS,

WITH BLACK ROUND HANDLES AND JAPANNED COVERS; WITH BRIGHT FLAT HANDLES AND PLANISHED COVERS, both the SAME PRICES as below.

No.	00000	0000	000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Contents,	1/0	1/2	1/4	1/6	1/9	2/0	2/6	3/0	3/6	4/0	4/6	5/0	5/6	6/0	6/6	7/3	8/3	9/0	10/6	12/0	13/9	15	17	19	21
	1/8	1/10	2/0	2/2	2/4	2/7	3/0	3/6	4/0	4/6	5/0	5/6	6/0	6/7	7/4	8/3	9/3	10/8	12/2	13/9	15	17	19	21	

DEEP STEW PANS AND COVERS,

PLUGGED LONG HANDLES; RIVETTED LONG HANDLES; CIRCULAR BOW HANDLES, TINNED AND RIVETTED ON; ELLIPTIC BOW HANDLES; CIRCULAR BOW HANDLES, BOWS CAST ON AND JAPANNED; RING HANDLES; FAST HANDLES; RAISED, WITH FAST HANDLES, all the SAME PRICES as below.

No.	00000	0000	000	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Inside Diameter of Top, 4½	5	5½	6	6½	7	8	8½	9	9½	10	10½	11	11½	12	12½	13	14	15	16	17	18	19	20	21
10½	11½	12½	13½	14½	15½	16½	17½	18½	19½	20½	21½	22½	23½	24½	25½	26½	27½	28½	29½	30½	31½	32½	33½	34½

RING HANDLE COVERS always sent for shipping orders, and FAST HANDLES for the home trade, unless ordered otherwise.

TINNED CAST IRON HOLLOW WARE.—Continued.

SHALLOW STEW PANS AND COVERS.

PLUGGED LONG HANDLES; RIVETTED LONG HANDLES; CIRCULAR BOW HANDLES, TINNED AND RIVETTED ON; ELLIPTIC BOW HANDLES; CIRCULAR BOW HANDLES, BOWS CAST ON AND JAPANNED. COVERS—with RING HANDLES; FAST HANDLES; RAISED WITH FAST HANDLES, all the SAME PRICES as below.

No.	00000	000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Inside Diameter of Top, 4 $\frac{3}{4}$	5	5 $\frac{1}{2}$	6	6 $\frac{1}{2}$	6 $\frac{3}{4}$	7	8	8 $\frac{1}{2}$	9 $\frac{1}{2}$	9 $\frac{3}{4}$	10 $\frac{1}{4}$	10 $\frac{3}{4}$	11 $\frac{1}{4}$	11 $\frac{1}{2}$	11 $\frac{3}{4}$	12 $\frac{1}{4}$	12 $\frac{1}{2}$	13	14	15
10d.	11d.	1/1	1/2	1/4	1/6	1/9	2/0	2/3	2/9	3/0	3/3	3/6	4/0	4/3	4/9	5/6	6/3	7/3	8/0	9/0

RING HANDLE Covers always sent for shipping orders, and FAST HANDLE Covers for the home trade, unless ordered otherwise.

OVAL STEWPANS AND COVERS.

LONG HANDLES; BOW HANDLES; both the SAME PRICE as below.

No. 0	0x	1	2	3	4	5	6	7	8	9
Contents, 2 $\frac{1}{2}$	3	4	5	6	8	10	13	15	19	22
3/9	4/0	4/3	5/0	6/0	7/3	8/3	9/9	11/6	14/0	16/0
1/0	1/2	1/2	1/2	1/6	1/6	1/9	1/9	1/9	1/9	1/9

No. 5, and all above, have a BOW HANDLE in front.

GLUE PANS AND CUPS.

No.	000000	000000	00000	0000	000	00	0	1	2	3	4	5	6	7	8	9	10
Untinned Pans, with Plugged Handle..	1/1	1/2	1/2	1/4	1/8	1/10	2/0	2/2	2/8	3/2	3/10	4/4	5/2	5/8	6/2	7/2	8/5
Tinned Pans, ditto	..	1/3	1/4	1/6	1/8	2/0	2/2	2/4	2/7	3/1	3/8	4/4	5/2	6/2	6/8	7/2	8/8
Copper Pans, ditto	..	2/5	2/6	2/8	2/10	3/3	3/6	3/9	4/3	5/0	5/9	6/6	8/0	9/0	10/0	11/0	12/3
Untinned Pans, with Bail Handle	9d.	10d.	10d.	1/3	1/2	1/4	1/6	1/8	2/2	2/8	3/4	3/8	4/6	5/0	5/6	6/6
Tinned Pans, ditto	11d.	1/0	1/2	1/4	1/6	1/8	1/10	2/1	2/7	3/2	3/10	4/6	5/6	6/0	6/6	7/6
Copper Pans, ditto	2/1	2/2	2/4	2/6	2/9	3/0	3/3	3/9	4/6	5/3	6/0	7/3	8/3	9/3	10/3	11/6

GLUE POTS AND CUPS.

SHALLOW WASH-HAND BASINS.

No.	0	1	2	3	4	5	6
Diameter of Top, 6 $\frac{3}{4}$	8	8 $\frac{1}{2}$	9 $\frac{1}{2}$	10 $\frac{1}{2}$	11 $\frac{1}{2}$	12	13
Tinned Inside and Japanned Outside	10d.	1/1	1/4	1/8	2/0	2/6	3/0
Galvanized Inside and Outside	....	10d.	1/1	1/4	1/6	1/9	2/4

SHALLOW RICE PANS.

No.	00	0	1	2	3	4	5	6
Diameter of Top, 4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6	6 $\frac{1}{2}$	7	7 $\frac{1}{2}$	8	8 $\frac{1}{2}$
Tinned Inside and Japanned Outside	10d.	1/1	1/4	1/8	2/0	2/6	3/0	each.
Galvanized Inside and Outside	....	10d.	1/1	1/4	1/6	1/9	2/4	3/0

DEEP WASH-HAND BASINS.

No.	00	0	1	2	3	4	5	6
Diameter of Top, 7 $\frac{1}{2}$	8	8 $\frac{1}{2}$	9	10	10 $\frac{1}{2}$	11	11 $\frac{1}{2}$	12
Tinned Inside and Japanned Outside	1/0	1/1	1/4	1/8	2/0	2/5	2/10	4/0
Galvanized Inside and Outside	....	11d.	1/1	1/3	1/5	1/6	1/11	2/3

Dis.
count.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

Dis-
count.

TINNED CAST IRON HOLLOW WARE.—Continued.

CHOCOLATE POTS.

CLOUTIER 1015.																												
No.	00	0	1	2	3	4	5	6																				
Upright.....	1/2	1/3	1/4	1/7	2/0	2/8	3/8	4/6	each.	Bellied									No.	000	00	0	1	2	3	4	5	6
																			1/0	1/1	1/2	1/3	1/6	1/9	2/1	2/5	2/10	each.
	No.									0000	00	0	1	2	3	4	5	6										
	Contents,									1 1/2	2	2 1/2	3	3 1/2	4	5	6											
New Pattern	1/10	2/0	2/2	2/4	2/8	3/0	3/6	4/0	4/6	each.																		

COFFEE POTS, WITH WOOD HANDLES.

No.	00	0	1	2	3	4	5	6	No.	000	00	0	1	2	3	4	5	6		
Upright.....	1/5	1/6	1/7	1/10	2/3	3/0	3/8	4/6	each.	Bellied.....	1/0	1/1	1/2	1/3	1/6	1/9	2/4	3/6	4/2	each.
	No.	000	0	1	2	2 1/2	3	3 1/2		Contents, 1 1/2	2	2 1/2	3	4	5	6				
New Pattern	1/11	2/1	2/3	2/6	2/10	3/2	3/8	4/2	4/8	each.										

COFFEE POTS, WITH JUG HANDLES AND HINGE COVERS.

No.	00	0	1	2	3	4	5	6		No.	000	00	0	1	2	3	4	5	6		
Upright.....	1/5	1/7	1/9	2/1	2/6	3/1	3/9	4/6	each.	Bellied	1/4	1/5	1/6	1/7	1/10	2/1	2/8	3/10	4/6	each.	
										000	1	2	3	4	5	6					
										Contents,	1½	2	2½	3	4	5	6				
New Pattern										2/7	2/9	3/0	3/3	3/6	4/0	4/9	5/6	6/6 each.			

FRYING PANS.

BAIL HANDLES, WITH LIP; BOW HANDLES, WITH LIP; SOCKET HANDLES, WITH LIP; LONG FLAT HANDLES, RIVETTED ON, WITH LIP;
LONG FLAT DOVE-TAILED HANDLES, WITH LIP; LONG CAST HANDLES, WITH LIP. CAN BE HAD PLAIN, THAT IS WITHOUT LIPS, IF SO
ORDERED. All the SAME PRICES as below.

Diameter of Bottom,	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	13	14	15	16	17	18	inches.
Black	1/3	1/5	1/6	1/7	1/8	1/9	1/10	1/11	2/0	2/2	2/3	2/5	2/6	3/0	3/6	4/0	4/6	5/0	6/0	each.
Turned	1/6	1/8	1/9	1/10	1/11	2/1	2/2	2/3	2/4	2/6	2/8	2/10	3/0	3/6	4/1	4/8	5/3	6/0	7/0	"
Tinned	1/11	2/1	2/3	2/5	2/8	2/10	3/0	3/3	3/4	3/6	3/9	3/11	4/1	4/10	5/6	6/3	7/0	8/0	9/0	"

BAIL HANDLE, WITH LIP BETWEEN BAIL.

Diameter of Bottom,	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	13	14	15	16	17	18	inches.
Black	1/7	1/9	1/10	1/11	2/0	2/1	2/2	2/5	2/6	2/8	2/9	2/11	3/0	3/6	4/0	4/6	5/0	5/6	6/6	each.
Turned	1/10	2/0	2/1	2/2	2/3	2/5	2/6	2/9	2/10	3/0	3/3	3/4	3/6	4/0	4/7	5/2	5/9	6/6	7/6	"
Tinned	2/3	2/5	2/7	2/9	3/0	3/2	3/4	3/9	3/10	4/0	4/3	4/5	4/7	5/4	6/0	6/9	7/6	8/6	9/6	"

OVAL FRYING PANS.—SAME SIZES and PRICES as ROUND, except the Half-Inches, which are not made. In ordering Frying Pans, when Oval are
required, care must be taken that OVAL is stated, as Round are always sent when shape is not mentioned.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.—Continued.

LIGHT ROUND FRYING PANS.

	No.	00	0	1	2	3	4	5	6	7	8	9
Diameter of Bottom.....	6	6½	7	7½	8	8½	9	9½	10	10½	11	inches.
Bail Handle	10/9	12/0	14/6	15/9	17/0	18/3	19/6	21/0	23/6	25/6	28/0	per doz.
Bail Handle, with Lip between Bail	14/9	16/0	18/6	19/9	21/0	22/3	23/6	27/0	29/6	31/6	34/0	"
Long Flat Handle, rivetted on; or Socket Handle	10/0	11/0	12/0	13/6	15/0	16/3	17/6	19/0	21/6	23/6	26/0	"

OVAL FRYING PANS AND LIGHT OVAL FRYING PANS.

SAME SIZES and PRICES as ROUND, except the Half-inches, which are not made. In ordering Light Frying Pans, when Oval are required, care must be taken that OVAL is stated, as Round are always sent when shape is not mentioned.

GIRDLES.

FAST BAIL HANDLES; FOLDING BAIL HANDLES; both the SAME PRICES as below.

Diameter	8	9	10	11	12	13	14	15	16	17	18	19	20	22	24
	1/8	1/10	2/0	2/3	2/6	3/0	3/6	4/0	4/6	5/0	6/0	7/0	8/0	10/0	13/0 each.

FLUTED GRID IRONS.

6	7	8	9	10	11	12	13	14	15	16	18	20 bars.
1/10	2/0	2/3	2/6	3/0	3/3	3/6	3/9	4/0	4/3	4/9	5/6 each.	

IMPROVED GRID IRONS.

7	8	9	10	11	12	13	14	15	16	17	18	19	20 bars.
2/0	2/3	2/6	2/9	3/0	3/6	4/0	4/6	5/0	5/9	6/6	7/6	8/6	10/0 each.

FRY PAN GRID IRONS.

7	8	9	10	11	12	14 bars.
2/6	2/9	3/0	3/4	3/6	4/0	4/6 each.

REVOLVING GRID IRONS.

No.	00	0	1	2	3
Diameter ..	8½	10½	11½	13½	inches.
	3/3	3/6	3/9	4/0	4/3 each.

ROUND GRID IRONS.

LONG HANDLES; BAIL HANDLES; both SAME PRICES as below.

Diameter	8	9	10	11	12	13	14	inches.
	1/2	1/4	1/5	1/7	2/2	2/7	3/0 each.	

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

TINNED CAST IRON HOLLOW WARE.—Continued.

IMPROVED GRID IRONS.

With Bail Handles	7	8	9	10	11	12	13	14	15	16	17	18	19	20	bars.
	2/0	2/3	2/6	2/9	3/0	3/6	4/0	4/6	5/0	5/9	6/6	7/6	8/6	10/0	each.

ROUND HOLES.

SQUARE BACK CINDER SIFTERS.

LONG HOLES.

No.	0000	000	00	0	1	2	3	4	No.	000	00	0	1	2	3
Measure across front	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2
Depth inside, at bottom	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2
Round Holes	6/3	6/9	7/3	8/0	8/6	10/0	12/0	15/0 dozen.	6/3	6/9	7/3	8/0	8/6	10/0	12/0 dozen.

OLD PATTERN.

DUST PANS.

NEW PATTERN.

No.	00	0	1	2	3	4	No.	0000	000	00	0	1	2	3	4
Measure across front	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	7 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2
Depth inside, at bottom	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	6 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2
Old Pattern	7/3	8/0	8/6	10/0	12/0	15/0 dozen.	6/3	6/9	7/3	8/0	8/6	10/0	12/0	15/0 dozen.	

ROUND BACK CINDER SIFTERS.

COPPER HOLE SHOVELS.

No.	00	0	1	2	3	4	5	No.	00	0	1	2	3	4
Measure across front, at bottom	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2
Depth inside, at bottom	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2 dozen.	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2
	7/6	8/0	8/6	9/0	10/0	11/0	13/0 dozen.	5/0	5/6	6/6	7/6	8/6	10/0	dozen.

FLAT BOTTOM.

COAL BOX SHOVELS.

ROUND BOTTOM.

No.	1	2	3	4	No.	5	6	7	8
Depth, measuring inside bottom	6	7	7 1/2	8 inches.	6	7	7 1/2	8 inches.	
Flat Bottom	10/0	11/0	12/0	13/0 dozen.	10/0	11/0	12/0	13/0 dozen.	

ROUND BACK SHOVELS, 5/0 dozen.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.

SAUCEPANS, COVERS, AND POTATO STEAMERS.

No.	0	1	2	3	4	5	6	7	8	9	10	11	12
Contents, Pints,	1	2	3	4	5	6	7	8	9	10	11	12	13
Bellied Open Saucepans	8d.	10d.	1/0	1/3	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6
Upright Open Saucepans	8d.	9d.	11d.	1/2	1/4	1/5	1/7	1/8	1/10	2/2	2/6	2/9	3/0
Bellied Open Lipped Saucepans	10d.	11d.	1/2	1/5	1/8	1/10	1/11	2/1	2/2	2/6	2/10	3/2	3/5
Upright Open Lipped Saucepans	10d.	11d.	1/1	1/4	1/6	1/7	1/9	1/10	2/0	2/4	2/8	2/11	3/2
Japanned Covers, for Bellied Saucepans	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Ditto Upright ditto	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Ditto Bellied Lipped ditto	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Block Tin Covers, for Bellied Saucepans	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Ditto Upright do.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Ditto Bellied Lipped ditto	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Ditto Upright ditto	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.	3d.
Block Tin Potato Steamers	11d.	1/1	1/3	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6	3/9
Bellied Saucepans and Japanned Covers	11d.	1/1	1/3	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6	3/9
Ditto Block Tin ditto	11d.	1/1	1/3	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6	3/9
Bellied Lipped ditto	1/2	1/4	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6	3/9	4/1
Ditto Block Tin ditto	1/2	1/4	1/6	1/9	1/11	2/0	2/4	2/8	3/0	3/3	3/6	3/9	4/1

All the above Saucepans can be had with three short legs cast on bottom, at 3d. each extra; or with bright flat handles, at 3d. each extra.

ROUND FRONT HANDLE SAUCEPANS AND COVERS.

WITH THE FRONT HANDLES RIVETTED ON, OR WITH FRONT HANDLES CAST ON AND JAPANNE. In ordering Front Handle Saucepans, say which is required.

No.	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Contents,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
With Japanned Covers	2/10	3/4	3/5	3/8	3/11	4/3	4/8	5/2	5/6	6/0	6/7	7/0	7/2	7/5	7/9	8/1
With Block Tin	3/0	3/4	3/5	3/8	3/11	4/3	4/8	5/2	5/6	6/0	6/7	7/0	7/2	7/5	7/9	8/1

OVAL FRONT HANDLE SAUCEPANS AND COVERS.

No.	0	00	000	0000	00000	000000	0000000	00000000	000000000	0000000000	00000000000	000000000000	0000000000000	00000000000000	000000000000000	0000000000000000
Contents,	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
With Japanned Covers	4/11	5/6	6/0	6/7	7/0	7/2	7/5	7/9	8/1	8/5	9/3	9/11	10/4	10/10	11/2	12/4
With Block Tin	6/6	7/2	7/10	8/5	8/9	9/3	9/7	10/3	10/11	11/6	12/9	14/0	15/6	16/9	18/0	19/6

TEA KITCHENS, WITH LONG BRASS COCKS.

No.	0	1	2	3	4	5	6	7	8	9
Contents,	1	2	3	4	5	6	7	8	9	10
With Lock Cocks, 1/0 each extra.	10/6	11/6	12/6	13/6	14/6	15/6	16/6	17/6	18/6	19/6
With Lock Cocks, 1/0 each extra. If with Lock Cocks and Straps over Covers to lock Covers on, 3/0 each extra.	10/6	11/6	12/6	13/6	14/6	15/6	16/6	17/6	18/6	19/6

TEA KITCHENS, with two Bow Handles instead of Ball, same sizes and prices as above.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

Dis-
count.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

BELLIED ROUND POTS AND COVERS.

CIRCULAR BOW HANDLES, WITH TINNED BOWS; CIRCULAR BOW HANDLES, WITH BOWS CAST ON AND JAPANNED; ELLIPTIC BOW HANDLES; BAIL HANDLES, are all the SAME PRICES as below.

No.	00	0	1	2	3	3x	4	4x	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12	12x	13	13x
Contents,	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5
With Japanned Covers	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5
With Block Tin	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5
No.	14	15	16	17	18	19	19x	20	20x	21	21x	22	23	24	25	26	26x	27	28	29	30	30	30	30
Contents,	3 1/2	4	4 1/2	5	5 1/2	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	30
With Japanned Covers	8/5	9/3	10/4	11/4	12/3	13/0	14/6	16/0	17/1	18/0	18/4	18/9	21/0	23/0	25/3	28/0	33/4	38/6	40/9	43/0	49/0	51/0	56/0	56/0
With Block Tin	8/11	9/10	11/2	12/4	13/3	14/0	15/9	17/6	18/9	19/9	20/6	21/3	23/9	25/9	28/0	31/0	35/0	43/6	45/9	48/1	55/0	57/0	63/0	63/0

In ordering Circular Bow Handle Pots, state whether Tinned Bows, or with Bows cast on and Japanned.

UPRIGHT OR SOUP POTS AND COVERS.

BAIL HANDLES; CIRCULAR BOW HANDLES, WITH TINNED BOWS; CIRCULAR BOW HANDLES, WITH BOWS CAST ON AND JAPANNED; ELLIPTIC BOW HANDLES, all the SAME PRICES as below.

No.	1	2	3	3x	4	4x	5	5x	6	6x	7	7x	8	8x	9	10	11	11x	12	13	14	15	15x	16	16x	17	18
Contents,	1 1/2	1 1/2	2	2 1/2	3	3 1/2	4	5	6	7	8	9	10	11	12	14	14pts.	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7
With Japanned Covers	1/6 1/2	1/9 1/2	2/0 1/2	2/3 1/2	2/7	2/9	2/10 1/2	3/1 1/2	3/5	3/8	3/11 1/2	4/4 1/2	4/9 1/2	5/2	5/5	6/0	6/7	6/10	7/2	7/9	8/5	9/3	10/4	11/4	12/3	13/0	14/6
With Block Tin	1/7 1/2	1/10 1/2	2/2	2/5	2/8 1/2	2/10 3/0 1/2	3/4	3/7 1/2	3/11 1/2	4/3	4/8 1/2	5/1	5/6 1/2	5/10 1/2	6/5	7/0	7/4	7/7	8/3	8/11	9/10	11/2	12/4	13/3	14/0	15/9	15/9

RUMFORD OR FLANGE POT.

WITH TINNED BOWS; WITH BOWS CAST ON AND JAPANNED, both the SAME PRICES as below.

No.	00	0	1	2	3	4	5	5x	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Contents,	5	6	7pts.	1	1 1/2	1 1/2	1 1/2	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	8 1/2	9	9 1/2	10	10 1/2	11	12
With Japanned Covers	3/0	3/3	3/6	4/0	4/6	5/0	5/6	6/0	6/6	7/0	8/0	9/0	10/0	11/0	13/0	14/0	15/0	16/0	17/0	18/0	19/0	20/0	21/0	24/0	27/0

OVAL POTS AND COVERS.

BAIL HANDLES; BOW HANDLES, WITH TINNED BOWS; BOW HANDLES, WITH BOWS CAST ON AND JAPANNED, all the SAME PRICES as below.

No.	0000000000	0000	00	00x	0	0x	0xx	1	1x	2	2x	2xx	3	3x	4	5	5x	6	6x	7	8	9		
Contents,	4	5	1	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7	8	9	10	11	12	14	16		
galls.																								
With Japanned Covers.	4/5	4/8	4 11/16	5/6	6/0 1/2	6/7	6 10/16	7/2	7/5	8/0	8 10/16	10/0	11/2	12/4	13/3	14/3	15/6	17/6	19/6	21/0	22/0	23/0	27/6	34/0
With Block Tin	5/10	6/2	6/6	7/2	7 10/16	8/5	8/9	9/3	9/7	10/3	11/6	12/9	14/0	15/6	16/9	18/0	19/6	21/9	24/0	26/0	27/0	28/0	32/6	39/0
"																								

In ordering Bow Handle Pots, state whether Tinned Bows, or with Bows cast on and Japanned.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

UPRIGHT OVAL POTS AND COVERS.

BAIL HANDLES; BOW HANDLES, WITH TINNED BOWS SCREWED ON, all the SAME PRICES as below.

	1½	2	2½	3	3½	4	4½	5	6
With Japanned Covers	6/0½	6/10	7/5	8/0	8/10	10/0	11/2	12/4	14/3
With Block Tin "	7/10	8/9	9/7	10/3	11/6	12/9	14/0	15/6	18/0

galls. each. "

BOW HANDLES, WITH TWO 1-PINT SAUCEPANS AND COVERS FITTED INTO COVER.

	3	3½	4	4½	5	6
With Japanned Covers	10/6	11/4	12/6	13/8	14/10	16/9
With Block Tin "	12/9	14/0	15/3	16/6	18/0	20/6

galls. each. "

GROG OR STEWPOTS AND COVER,

WITH CIRCULAR BOW HANDLES, WITH ONE ELLIPTIC OR JUG HANDLE, WITH TWO ELLIPTIC OR JUG HANDLES, all the SAME PRICES as below.

No.	10°	15°	14°	13°	12°	11°	10°	9°	8°	7°	6°	5°	4°	3°	00	0	0x	1	2	3	4	5	5x	6	7	8
Contents,	1	1½	1½	1½	2	2½	2½	3	3½	3½	4	4½	5	6	7½	8½	9½	11	13	16	18	23	24	28	32	36
	1/5	1/5	1/5	1/6	1/7	1/8	1/9	1/10	1/11	2/0	2/2	2/4	2/8	3/0	3/4	4/0	4/3	4/6	5/0	5/8	6/6	7/6	8/3	9/0	11/0	13/0

pints. each.

SHALLOW RICE PANS,

WITH STRONG WIRE HANDLES.

	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	12½	13	13½	14	14 inches.
7d.	8d.	8d.	9d.	9d.	10d.	10d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.	11d.

each.

SHALLOW STEWPANS AND COVERS.

PLUGGED LONG HANDLES;* CIRCULAR BOW HANDLES,* BOWS CAST ON AND JAPANNED;* CIRCULAR BOW HANDLES, WITH TINNED BOWS;* ELLIPTIC BOW HANDLES;* LONG HANDLES;* RING HANDLES;* FAST HANDLES;** RAISED, WITH FAST HANDLES;** all the SAME PRICES as below.

No.	5°	4°	3°	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Inside diameter of top,	4½	5	5½	6	6½	6¾	7	8¾	9	9½	9¾	10	10½	11	11½	12	12¾	13½	14	15	16	17	18	19	20		
*Open	7d.	7d.	9d.	10d.	11d.	10	13	16	17	10	23	26	27	10	32	37	40	46	59	66	76	86	96	116	136		
**With Japanned Covers	11d.	11d.	11	1/2	1/3	1/4	1/7	1/11	2/3	2/8	2/11	8/4	3/8	4	4/7	5/2	6/6	7/4	8/5	9/6	10/7	12/8	14/10	17/3	19/6		
**With Block Tin	11½d.	11½d.	11½d.	1/3	1/4	1/6	1/10	2/2	2/7	3/1	3/5	3/10	4/5	4/11	5/7	6/4	7/9	8/9	10/1	11/5	12/10	15/6	18/0	20/6	23/0		
Shallow Stewpans, with Bright Flat Handles, No. 5° to 3, 4d. each extra; No. 4 and all above, 8d. each extra. No. 10 and all larger sizes have Front Handles.																											

Dis-
count.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

Dis-
count.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

OVAL STEWSPANS AND COVERS.

LONG HANDLES; BOW HANDLES, both SAME PRICES as below.

No. 4 and all larger sizes have a Bow Handle in front.

No.	4°	3°	2°	0°	1	2	3	4	5	6	7	8	9
Contents,	3½	4	4½	5 pts.	3	4	5	6	8	10	13	15	19
Open	3/0	3/3	3/6	3/9	4/0	4/3	4/9	5/6	6/9	8/0	9/0	10/6	12/6
With Japanned Covers	3/6	3/10	4/2	4/5	4/9	5/0	5/7	6/6	7/11	9/4	10/6	12/8	14/6
With Black Tin ditto	4/10	5/2	5/6	6/0	6/4	6/7	7/5	8/8	10/7	12/2	13/10	15/6	18/0
												21/0	22 qts.

FRENCH, OR EXTRA DEEP STEWSPANS AND COVERS.

WITH BLACK ROUND HANDLES AND JAPANNED COVERS, WITH BRIGHT FLAT HANDLES AND PLANISHED COVERS, both SAME PRICES as below.

No.	5°	4°	3°	2°	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Contents,	½	1	1½	2	2½	3	4	5	6	7	9 pts.	5	6	7	8	9	10	12	13	14
Open	1/0	1/1	1/2	1/3	1/6	1/9	2/2	2/8	3/1	3/7	4/0	4/6	5/0	5/6	6/0	6/9	7/6	8/0	9/0	10/0
With Japanned Covers	1/3½	1/4½	1/5½	1/7	1/10	2/1	2/6	3/1	3/6	4/0	4/5	5/0	5/6	6/1	6/7	7/5	8/3	8/10	9/11	11/0
With Black Tin ..	1/4	1/5	1/6	1/8	2/0	2/4	2/10	3/5	3/11	4/6	5/0	5/9	6/4	7/1	7/10	8/9	9/9	10/7	11/11	13/4
With Bright ..	1/8	1/9	1/10	2/0	2/4	2/8	3/2	3/9	4/7	5/2	5/8	6/5	7/0	7/9	8/6	9/5	10/5	11/3	12/7	14/0

If with Circular Bow Handles, or with Elliptic Bow Handles, same sizes and Prices.

BUCKETS.

	Diameter inside of Top,	4	5	6	7	8	9	10	11	12 inches.
Japanned Black or Red outside	1/8	2/0	2/4	2/10	3/3	4/3	5/3	6/6	7/6	7/9 each.
Painted Oak Grain outside	3/0	3/6	4/0	4/9	5/6	6/6	7/6	8/9	10/0	"

If with Lips, all sizes, 9d. each extra. If with a Bow Handle on middle of side to tilt same, 9d. each extra.

DEEP STEWSPANS AND COVERS.

PLUGGED LONG HANDLES; CIRCULAR BOW HANDLES, BOWS CAST ON AND JAPANNED; CIRCULAR BOW HANDLES, TINNED AND RIVETTED ON; ELLIPTIC BOW HANDLES; all the SAME PRICES as below. COVERS, WITH LONG HANDLES, RING HANDLES, FAST HANDLES, RAISED WITH FAST HANDLES.

No.	5°	4°	3°	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Inside Diameter of Top, 4½	5	5½	6	6½	6½	7	8	8½	9½	9½	10½	10½	11½	11½	12½	13½	14	14½	14½	15½	16½	17½	18½	18½	18½
Open	7½d.	7½d.	9½d.	10d.	11d.	1/1	1/4	1/8	2/1	2/6	2/10	3/2	3/6	4/0	4/6	5/0	6/0	7/0	8/0	9/0	10/0	12/0	14/0	16/0	18/0
With any of above-mentioned Jap'd Covers.. 11d.	11d.	11d.	1/1	1/2	1/3	1/5	1/8	2/1	2/6	2/11	3/3	3/8	4/0	4/7	5/1	5/8	6/9	7/10	8/11	10/0	11/1	13/4	15/9	18/0	20/6
With Black Tin Covers, either Ring Handle, Fast Handle, or Raised with Fast Handle.. 11½d.	11½d.	1/14	1/8	1/5	1/8	2/0	2/5	2/11	3/5	3/10	4/5	4/10	5/7	6/4	7/0	8/3	9/7	10/11	12/4	14/0	16/6	19/0	21/6	24/0	"

No. 10 and all larger sizes have front handles.

Deep Stew Pans, with Bright Flat Handles and Planished Cover. No. 5° to 3, 4d. each extra. No. 4 and all above, 8d. each extra.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

PUDDING PANS.

Diameter of Top.	8	8½	9	9½	10	10½	11	11½	12	12½	13 inches.
2/2	2/3	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/0	4/3	4/3 each.

FISH KETTLES AND COVERS AND STRAINERS.

No.	000	00	0	0x	1	2	3	3x	4	4x	5	6	7	8
Length,	12	13	14	15	16	17	18	19	20	21	22	24	26	28 inches.
Open	5/10	6/2	6/6	7/0	7/4	8/0	9/6	10/3	11/0	13/6	16/0	20/0	24/0	30/0 each.
With Japanned Covers	6/7	7/1	7/7	8/3	8/11	9/10	11/6	12/6	13/3	15/9	18/6	22/9	27/3	34/0 "
With Block Tin	6/10	7/3	7/9	8/4	9/0	10/0	11/9	12/9	13/6	16/0	18/9	23/0	27/6	34/6 "
Block Tin Strainers only	10d.	11d.	1/0	1/2	1/4	1/9	2/0	2/2	2/4	2/6	2/8	3/0	3/6	4/3 "
Complete as generally sent, viz., with Japanned Covers and Block Tin Strainers	7/5	8/0	8/7	9/5	10/3	11/7	13/6	14/8	15/7	18/3	21/2	25/9	30/9	38/3 "

FISH KETTLES, with End Handles, same sizes and prices as above. The above always sent with Strainers, unless ordered without.

TURBOT KETTLES AND COVERS AND STRAINERS.

No.	0	1	2	3	4
Length,	16	18	20	22	24 inches.
Breadth,	13½	14½	16	18	20 "
Open	11/3	12/0	14/0	19/6	23/6 each.
With Japanned Covers	13/0	14/0	16/6	22/6	27/0 "
With Block Tin	13/6	14/6	17/0	23/0	27/6 "
Block Tin Strainers only	1/9	2/0	2/6	3/0	3/6 "
Complete, as generally sent, viz., with Japanned Covers and Block Tin Strainers	14/9	16/0	19/0	25/6	30/6 "

TURBOT KETTLES, with End Handles, same sizes and prices as above. The above always sent with Strainers, unless ordered without.

ROUND TEA KETTLES, WITH CAST COVERS.

FAST IRON HANDLES; IRON DROP HANDLES; BARREL HANDLE, MALLEABLE IRON OR BRASS, all the SAME PRICES as below.

No.	9°	8°	7°	6°	5°	4°	3°	00	0	1	2	3	3x	4	4x	5	6	7	8	9	10	11	12
Contents,	1	1½	1½	1½	2	2½	2½	2½	3	4	5	6pts.	3½	4	4½	5	6	7	8	9	10	11	12
Fast Iron Handles	2/2	2/3	2/4	2/5	2/6	2/7	2/9	3/0	3/3	3/6	4/0	4/9	5/0	5/6	6/0	6/6	7/6	8/6	9/6	10/6	11/6	12/3	12/9 each.
Iron Drop	2/5	2/6	2/7	2/8	2/9	2/10	3/0	3/3	3/6	3/9	4/3	5/0	5/3	5/9	6/3	6/9	8/0	8/9	9/9	10/9	11/9	12/5	13/0 "
Malleable Iron Barrel Handles....	2/5	2/6	2/7	2/8	2/9	2/10	3/0	3/3	3/6	3/9	4/3	5/1	5/4	5/10	6/4	6/10	7/10	9/0	10/0	11/0	12/0	12/9 13/3 "	
Brass Barrel Handles	3/9	3/9	3/9	3/9	3/9	3/9	4/0	4/3	4/6	4/9	5/3	6/3	6/6	7/1	7/7	8/2	9/6	10/6	11/6	12/6	13/9	14/6 15/6 "	

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

Dis-
count.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

SCOTCH PATTERN TEA KETTLES.

ROUND HANDLES; SQUARE HANDLES, both SAME PRICES as below.

No.	00	1	2	3	4	5	6	7
Contents,	4½	5½	6½	8	9	10	12	15
	4/0	4/9	5/0	5/6	6/0	6/9	7/9	9/0

ROUND HANDLES always sent when orders do not describe which kind of Handle is required.

OVAL TEA KETTLES, WITH CAST COVERS.

SNUGED IRON HANDLES; DROP IRON HANDLES; BARREL HANDLES, MALLEABLE IRON OR BRASS, all the SAME PRICES as below.

No.	00	1	2	3	3x	4	5	6	7	8	9	10
Contents,	2½	3/6	3/9	4/0	4/3	5/0	5/3	5/9	6/3	6/9	7/9	8/9
Fast Iron Handles	3/3	3/6	3/9	4/0	4/3	5/0	5/3	5/9	6/3	6/9	7/9	8/9
Iron Drop "	3/6	3/9	4/0	4/6	5/3	5/6	5/9	6/0	6/6	7/0	8/3	9/0
Malleable Iron Handles	3/6	3/9	4/0	4/6	5/4	5/7	6/1	6/7	7/1	8/1	9/3	10/0
Brass Handles	4/6	4/9	5/0	5/6	6/6	6/9	7/4	7/10	8/5	9/9	10/9	11/9

GLUE PANS AND CUPS.

No.	00000000	0'0'0'0'0	00'00	0'0'0'0	00'0	00	0	1	2	3	4	5	6	7	8	9	10
Black Pans and Enamelled Cups, Plugged Handles	1/3	1/4	1/5	1/6	1/8	1/10	2/2	2/6	2/10	3/4	3/10	4/6	5/0	5/6	6/3	7/6	8/6 each.
Pans and Cups Enamelled, Plugged Handles	1/11	2/0	2/0	2/3	2/4	2/7	2/10	3/4	3/8	4/0	4/10	5/6	6/0	7/0	7/6	9/0	11/3 "

GLUE POTS AND CUPS.

Black Pots and Enamelled Cups, Bail Handles....	1/0	1/1	1/2	1/3	1/4	1/6	1/10	2/2	2/6	3/0	3/6	4/0	4/6	5/0	5/9	7/0	8/0 "
Pots and Cups Enamelled, Bail Handles	1/8	1/9	1/9	2/0	2/0	2/3	2/6	3/0	3/4	3/8	4/6	5/0	5/6	6/6	7/0	8/6	10/9 "

POT DIGESTERS.

BAIL HANDLES; BOW HANDLES, both the SAME PRICE as below,																	
1	1½	2	2½	3	3½	4	4½	5	6	7	8	9	10	gallons.			
2/6	3/6	4/6	5/6	6/6	7/3	8/3	9/0	10/3	11/6	13/6	15/6	16/6	17/6	19/6	22/6	26/0	30/0 each.

STEW-PAN DIGESTERS.

No.	1	2	3
Contents,	2½	3	4½
	3/6	4/3	5/6 each.

SAUCE-PAN DIGESTERS.

No.	1	2	3	4	5	6	7	8	quarts.
Contents,	2½	3	4½	5	6	7	8	9	
	3/6	4/3	5/6 each.	3/0	3/4	2/3	5/0	5/6	6/6
									7/3
									8/3
									9/0 each.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

STEW-POTS, WITH TINNED INSIDE PANS,

Suitable for Stews, Milk, &c., as the inner Pan being in water, the contents cannot burn.

Contents of Inside Pan.		No.		000		0		1		3		5		6		6x		7		8		9		10	
Enamelled Pans and Black Pots		1/8 1/4		1/10		2/2		2/6		3/4		4/6		5/0		5/3		5/6		6/3		7/6		8/6	
Pots and Pans, Enamelled		2/4		2/7		2/10		3/4		4/0		5/6		6/0		6/6		7/0		7/6		9/0		11/3	

MASLIN KETTLES AND SKILLETS.

MASLIN KETTLES with BOW HANDLES and without, all the SAME PRICES as below. Skillets No. 1 to 8 are without the Handle in front.

No.		1		2		3		4		5		6		7		8		9		10		11		12		12x		13		13x		14		15		16		17		18		19		20	
Contents,		2½		3		3½		4¼		5½		6		6		7		7 pta.		8		9		10		11		12		13		14		15		16		17		18		19		20	
		14		14		16		18		18		20		20		22		24		24		24		24		24		24		24		24		24		24		24		24		24		24	

PRESERVING PANS.

WITH WROUGHT IRON BOWS OR CAST IRON BOWS, both SAME PRICES as below.

No.	8°		7°		6°		5°		4°		3°		2°		1°		2x		3		3x		4		4x		5		6	
Diameter of Top,	6	6½	7	6½	7	6½	7½	7	7½	8	7½	9	8	10	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	4/9	4/11	5/0	5/2	5/3	5/6	5/9	6/0	6/6	7/0	7/6	8/3	9/0	9/9	10/6	11/6	12/6	16/0	each.											

FLUTED GRID IRONS.

		6		7		8		9		10		11		12		13		14		15		16		18		20	
		1/10		2/0		2/3		2/6		2/9		3/0		3/3		3/6		3/9		4/0		4/3		4/9		5/6	

IMPROVED GRID IRONS.

With Bright Flat Handles.....		7		8		9		10		11		12		13		14		15		16		17		18		19		20	
		2/0		2/3		2/6		2/9		3/0		3/3		3/6		4/0		4/6		5/0		5/9		6/6		7/6		8/6	

REVOLVING GRID IRONS.

FRY-PAN GRID IRONS.													
		No.		0		1		2		3		4	
		Diameter,		8 1/4		10 1/4		11 1/4		13 1/4 inches.		each.	
7	8	9	10	11	12	14	bars.						
2/6	2/9	3/0	3/4	3/6	4/0	4/6	each.						
								3/3	3/6	3/9	4/0	4/3	each.

IMPROVED GRID IRONS.

With Bail Handles.....		7		8		9		10		11		12		13		14		15		16		17		18		19		20	
		2/0		2/3		2/6		2/9		3/0		3/3		3/6		4/0		4/6		5/0		5/9		6/6		7/6		8/6	

FRY-PAN GRID IRONS.

No.		7		8		9		10		11		12		13		14	
Diameter.		8 1/4		9 1/4		10 1/4		11 1/4		12 1/4		13 1/4		14 1/4		15 1/4	

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

CHOCOLATE POTS.																		
No.	10°	9°	8°	7°	6°	5°	4°	3°	00	0	1	2	3	4	5	6	7	8
Upright .....	..	..	..	..	1/3	1/5	1/7	1/8	1/9	1/10	2/10	2/6	3/10	3/6	4/10	5/10	..	.. each.
Old Pattern, Bellied	1/4	1/4	1/4	1/4	1/4	1/5	1/5	1/6	1/6	1/7	1/8	2/10	2/4	3/1	4/8	6/10	..	"
New Pattern	1/11	2/10	2/10	2/10	2/11	2/12	2/15	2/17	2/19	2/10	3/12	3/8	4/10	4/8	5/4	6/11	7/8	"

NEW PATTERN.—When supplied without the Wood Handles, all sizes are charged 2l. each less, but always sent with Wood Handles, unless ordered without.

CHOCOLATE POT STICKS.—7 in. long, 5/0; 9 in., 5/9; 11 in., 6/6 per dozen.

COFFEE POTTS, WITH WOOD HANDLES.

No.	10°	9°	8°	7°	6°	5°	4°	3°	00	0	1	2	3	4	5	6
Upright .....	..	..	..	..	1/6	1/8	1/10	1/11	2/0	2/1	2/3	2/9	3/3	3/9	4/3	5/3 each.
Old Pattern, Bellied	1/5	1/5	1/6	1/7	1/7	1/8	1/8	1/9	1/9	1/10	1/11	2/3	2/7	3/4	4/8	6/0 "
New Pattern	2/0	2/1	2/2	2/3	2/4	2/5	2/6	2/7	2/9	2/10	3/3	3/8	4/0	4/9	5/6	6/0 "

COFFEE POTS, WITH JUG HANDLES AND HINGE COVERS.

	No.	10°	9°	8°	7°	6°	5°	4°	3°	00	0	1	2	3	4	5	6
Upright .....	..	..	..	..	..	1/6	1/8	1/10	1/11	2/0	2/1	2/3	2/3	3/3	3/4	4/3	5/3 each.
Old Pattern, Belled	1/5	1/5	1/6	1/7	1/7	1/8	1/8	1/9	1/9	1/9	1/10	1/11	2/3	2/7	3/4	4/8	6/0
New Pattern	2/0	2/1	2/2	2/3	2/4	2/5	2/6	2/7	2/7	2/10	2/10	3/3	3/8	4/0	4/9	5/6	6/0

CHILI POTS.

No.	1	2	3	4	5	6
Contents,	1½	1½	2½	3½	4½	5½ pints.
With Bright Tin Covers, fastened with Brass Chains.....	1¼	1½	2/0	2/6	3/6	4/6 each.

JUG-HANDLE POTS AND JAPANNED COVERS.

1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24
1/9	1/9	1/9	2/6	2/9	3/3	3/6	3/9	4/0	4/4	4/8	5/0	5/3	5/7	5/10	6/6	7/0	7/3	7/9	8/6

If with TWO HANDLES, 1 to 6 pints, 4d. each extra; 64 to 24 pints, 6d. each extra.

RICE BOWLS.

5s	6	6d	7	7s	8	8s	9	9s	10	10s	11	11s	12	12s	13	13s	14	14s	15	15s	16	17	18	20	22	24 in. diam.
6s	7d	7s	8d	8s	9d	10d	10s	11d	11s	12d	12s	13d	13s	14d	14s	15d	15s	16d	16s	17d	17s	18d	18s	20d	22d	24 in. diam.

If with LIPS, 3d. each extra to No. 16; above, 6d. each. If with THREE LEGS, 3d. each extra to No. 16; above, 6d. each.

If with LIPS, 3d. each extra to No. 16; above, 6d. each. If with THREE LEGS, 3d. each extra to No. 16; above, 6d. each.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

EVAPORATING BOWLS, with LIPS.

2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	13	14	15	16	17	18	19	20	21	22 in. diam.	
6d.	6½d.	7d.	7½d.	8d.	8½d.	9d.	9½d.	10d.	10½d.	11d.	1/0	1/1	1/2	1/4	1/6	1/9	2/0	2/3	2/6	3/0	3/6	4/0	4/6	5/0	5/6	6/0	7/0	10/0	14/0	each.

If with TUNNED BOW HANDLES, 10 in. and all smaller sizes, 4d. each extra; 10½ in. and all larger sizes, 8d. each extra.

If with TINNED BOW HANDLES, 10 in. and all smaller sizes, 4d. each extra; 10½ in. and all larger sizes, 8d. each extra.

FRYING PANS.

BRIGHT FLAT HANDLES; SOCKET HANDLES; BAIL HANDLES, WITH BOWS CAST ON AND JAPANNED; BOW HANDLES, WITH TINNED WROUGHT-IRON BOWS, RIVETED ON, all the SAME PRICES as below.

Diameter across Bottom ..	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	13	14	15	16	17	18	19	20	21	22	inches.
	1/5	1/6	1/7	1/8	1/9	1/10	1/11	2/0	2/1	2/3	2/6	2/8	2/10	3/0	3/3	3/6	3/9	4/0	4/3	4/6	5/0	5/6	6/0	6/6	7/0	8/0	each				

If with LIPS, all sizes 2d. each extra.

OVAL FRYING PANS,

Which are measured the long way across bottom, SAME SIZES AND PRICES as ROUND, except the Half-Inches, which are not made. In ordering Frying Pans, when OVALS are required, care must be taken that OVAL is stated, as ROUND are always sent when shape is not mentioned.

ALL ENAMELLED FRYING PANS ARE ALWAYS SENT WITHOUT LIPS, UNLESS ORDERED WITH.

PIKELET PANS.	8	9	10	inches diameter.
	3/0	3/6	4/0	each.

PUDDING PANS.

Oval	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	inches along bottom.
Oblong	1/4	1/6	1/7	1/8	1/10	2/1	2/4	2/6	3/0	3/6	4/0	4/6	5/3	6/0	7/0	7/6	8/0	9/0	each.
Japanned Covers	5d.	6d.	7d.	8d.	9d.	10d.	11d.	1/0	1/2	1/4	1/3	2/0	2/4	2/9	3/3	3/9	4/9	"	"

Both the Oval and Oblong Pudding Pans can be had with WROUGHT-IRON TINNED BOWS, rivetted on, if ordered so; but are always sent with Wire Handles, to fall, when not ordered otherwise. The Covers for the above Pudding Pans are sent with Ring Handles, unless ordered with Fast Handles.

WASH-HAND BASINS.

No.	0	1	2	3	4	5	6	No.	00	0	1	2	3	4	5	6
Diam. of Top,	6½	8	8½	9½	10½	11½	12 in.	Diam. of Top,	7½	8	8½	9	10	10½	11	12 in.
Shallow.....	10d.	1/0	1/3	1/6	1/9	2/1	2/6 each.	Deep.....	10d.	1/0	1/3	1/6	1/10	2/2	2/6	3/0 each.
Diameter of Top,	10	11	12	13	14	15	16 inches.	Diameter of Top,	10	11	12	13	14	15	16	inches.
Deep China Pattern.....	2/6	2/9	3/0	3/3	3/6	4/6	5/6 each.	Shallow China Pattern.....	2/5	2/8	2/11	3/2	3/5	4/5	5/5	each.

EDWARD BROOKES, ENGINEER, MACHINIST, AND TOOL MAKER, SHEFFIELD.

ENAMELLED CAST IRON HOLLOW WARE.—Continued.

PLUG BOWLS.

	No.	1	2	3	3x	4	4x	5	5x	6	7	8
Outside Diameter of Flange.....	10	11	11½	12½	13	13½	14½	15½	16½	17½	19½	21½
To fit Holes in Slate.....	8½	9½	10	11	11½	12	13	14	15	16	18	20
With or without Plug Holes.....	2/8	3/0	3/4	3/9	5/0	5/6	5/9	6/6	7/6	8/6	12/0	15/0
With overflow.....	3/8	4/0	4/6	5/6	6/6	7/0	7/3	8/0	9/0	10/0	13/6	16/6
With Side-hole for Underbay's Valve.....	3/8	4/0	4/4	5/3	6/0	6/6	6/9	7/6	8/6	9/6	13/0	16/0

½ in. Brass Plugs and Washers, with Union Joints and India Rubber Washers to fit plug-hole, 2/5 each.

BOX COFFEE MILLS, WITH BRASS HOPPERS.

SQUARE, ROUND, both the SAME PRICE as below.

	No.	000	00	0	3/3	3/6	4/0	1	2	3	4	5
With Brass Hoppers	3/0	3/3	3/6	4/0	4/6	5/0	5/9	6/6	each.		

ROUND MILLS, with Iron Hoppers, Painted White.

No.	000	00	0	1	2	3	3/8	4/0	each.
.....	2/6	2/9	3/0	3/3	3/8	4/0	4/6	5/0	5/9

FLANCH MILLS.

No.	0	1	2	3	4	5	6	7	8	9	10	11	12
With Wheels	6/0	6/6	7/6	8/6	10/0	12/3	15/0	18/0	20/0	25/0	34/0	42/0	50/0
Without Wheels	4/0	4/6	5/6	6/6	8/0	10/0	12/0	15/0	18/0	23/0	30/0	37/0	44/0
Counter Mills	4/0	4/6	5/6	6/6	8/0	10/0	12/0	..	..	..	..	..	..

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

WROUGHT-IRON PRESSED HINGES.

Dis- count.	No.	
		$\frac{1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \ 5 \text{ inches.}}{1/6 \ 1/9 \ 2/0 \ 2/4 \ 2/8 \ 3/4 \ 4/2 \ 4/10 \ 5/3 \ 6/6 \ 9/1 \ 12/0 \ 17/0}$ per doz. pairs.
1		STRONG EDGE BUTTS ..
		$\frac{1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \ 6 \text{ inches.}}{1/7 \ 1/8 \ 1/10 \ 2/2 \ 2/7 \ 3/2 \ 3/9 \ 4/4 \ 5/3 \ 6/3 \ 9/6 \ 10/6 \ 15/6}$ per doz. pairs.
2		LIGHT EDGE BUTTS
		$\frac{1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \ 6 \ 7 \ 8 \text{ inches.}}{1/3 \ 1/3 \ 1/4 \ 1/5 \ 1/6 \ 1/9 \ 2/1 \ 2/6 \ 3/0 \ 3/5 \ 3/10 \ 4/10 \ 5/11 \ 7/2 \ 8/11 \ 12/9 \ 23/0}$ per doz. pairs.
3		SCOTCH BUTTS, $\frac{4 \ 5 \ 6 \ 7 \ 8 \text{ inches.}}{6/0 \ 8/5 \ 10/9 \ 15/4 \ 26/6}$ per doz. pairs.
4		SCOTCH BUTTS, Broad and Narrow
		$\frac{1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{1/4 \ 1/4 \ 1/4 \ 1/5 \ 1/6 \ 1/9 \ 1/11 \ 2/6 \ 3/0 \ 3/7 \ 4/2 \ 4/10 \ 5/6 \ 7/0 \ 9/0}$ per doz. pairs.
5		LOOSE BUTTS, Japanned, 1 Countersunk Holes..
		$\frac{1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{1/4 \ 1/4 \ 1/4 \ 1/5 \ 1/6 \ 1/9 \ 1/11 \ 2/6 \ 3/0 \ 3/7 \ 4/2 \ 4/10 \ 5/6 \ 7/0 \ 9/0}$ per doz. pairs.
5A		LOOSE BUTTS, Strong, $\frac{1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 3\frac{3}{4} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{1/4 \ 1/4 \ 1/4 \ 1/5 \ 1/6 \ 1/9 \ 1/11 \ 2/6 \ 3/0 \ 3/7 \ 4/2 \ 4/10 \ 5/6 \ 7/0 \ 9/0}$ per doz. pairs.
		$\frac{1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{2/0 \ 2/1 \ 2/3 \ 2/7 \ 3/0 \ 3/8 \ 4/6 \ 6/0 \ 7/6 \ 10/0 \ 13/6}$ per doz. pairs.
6		BRIGHT LOOSE BUTTS, Light, $\frac{1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 3 \ 3\frac{1}{2} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{2/6 \ 2/9 \ 3/0 \ 4/0 \ 5/0 \ 7/3 \ 8/9 \ 12/0 \ 16/6}$ per doz. pairs.
7		BRIGHT LOOSE BUTTS, Strong..
		$\frac{1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \ 3\frac{1}{2} \ 4 \ 4\frac{1}{2} \ 5 \text{ inches.}}{3/5 \ 3/6 \ 4/3 \ 5/6 \ 7/0 \ 8/6 \ 10/0 \ 15/6}$ per doz. pairs.
8		DOVETAIL BACK FLAPS
		$\frac{3 \ 4 \ 5 \ 1 \ 1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{3}{4} \ 1\frac{3}{4} \ 1\frac{3}{4} \ 2 \ 2\frac{1}{2} \ 2\frac{3}{4} \ 3 \text{ inches.}}{1/10 \ 1/11 \ 2/0 \ 2/1 \ 2/6 \ 2/9 \ 3/2 \ 3/8 \ 4/8 \ 5/6 \ 7/6 \ 9/6 \ 12/0}$ per doz. pairs.
9		BACK FLAPS AND TABLE..
		$\frac{6 \ 8 \ 10 \ 12 \ 14 \ 15 \ 16 \ 17 \ 18 \ 20 \ 22 \ 24 \text{ inches.}}{3/8 \ 3/11 \ 4/6 \ 5/0 \ 6/2 \ 7/2 \ 8/2 \ 9/10 \ 12/1 \ 14/11 \ 16/0 \ 18/9}$ per doz. pairs.
10		X GARNETS, Japanned, double washered....
		$\frac{8 \ 10 \ 12 \ 14 \ 16 \ 18 \ 20 \ 22 \ 24 \text{ inches.}}{4/6 \ 5/0 \ 6/2 \ 8/2 \ 12/1 \ 14/11 \ 18/9 \ 23/6 \ 28/6}$ per doz. pairs.
11		STRONG X GARNETS, Japanned, double washered.....
		$\frac{6 \ 8 \ 10 \ 12 \ 14 \ 16 \ 18 \ 20 \text{ inches.}}{3/6 \ 4/6 \ 7/6 \ 10/6 \ 13/6 \ 17/0 \ 23/0 \ 27/0}$ per doz. pairs.
12		WATER JOINTS, Japanned
		$\frac{5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 14 \ 16 \text{ inches.}}{5/0 \ 5/6 \ 5/9 \ 6/0 \ 7/6 \ 8/6 \ 10/0 \ 11/6 \ 14/3 \ 18/3}$ per doz. pairs.
13		HAMBRO, Ts
		$\frac{3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 14 \ 16 \ 18 \ 20 \text{ inches.}}{2/10 \ 3/0 \ 3/6 \ 4/6 \ 5/6 \ 6/6 \ 7/6 \ 8/6 \ 9/0 \ 11/0 \ 14/0 \ 17/0 \ 20/0}$ per doz. pairs.
15		CHEST HINGES
		$\frac{5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 14 \ 16 \ 18 \ 20 \ 22 \ 24 \text{ inches.}}{3/6 \ 3/9 \ 4/0 \ 4/6 \ 5/0 \ 7/6 \ 9/0 \ 10/6 \ 13/0 \ 17/0 \ 23/0 \ 27/0 \ 34/0 \ 42/0}$ per doz. prs.
16		BB LONDON or LANCASHIRE, T, Double Washered

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

EDWARD BROOKES.

WROUGHT-IRON PRESSED HINGES.—Continued.

Dis- count.	No.	
	17	SCOTCH, T, Japanned, 6 7 8 9 10 11 12 14 16 18 20 22 24 inches. Double Washered.. 5/6 6/0 6/6 7/0 7/6 8/6 9/0 11/0 14/6 17/6 21/6 25/0 32/0 per doz. pairs.
	18	STRONG SCOTCH, T, Japanned, 8 9 10 11 12 14 16 18 20 22 24 inches. Double Washered 6/6 7/0 7/6 8/6 9/0 11/0 14/6 17/6 21/6 25/0 32/0 per doz. pairs.
	20	BENT STRAP 4 5 6 7 8 9 10 12 14 inches 2/9 3/9 5/0 6/0 8/0 11/0 13/0 19/0 25/0 per doz. pairs.
	21	STRAP HINGES..... 4 5 6 7 8 9 10 11 12 14 16 inches. 2/9 3/9 5/0 6/0 7/6 9/0 11/0 14/0 17/0 23/0 31/6 per doz. pairs.
	22	H HINGES 3 4 5 6 7 8 9 10 12 inches. 2/4 2/10 3/6 4/3 5/2 6/4 7/9 9/3 14/0 per doz. pairs.
	23	LOOSE H HINGES 3 4 5 6 7 8 inches. 3/9 4/9 5/9 6/9 9/0 11/0 per doz. pairs.
	24	LIGHT PLATE HOOKS & } 6 7 8 9 10 12 14 15 16 17 18 20 22 24 inches. HINGES, Japanned, } 4/3 4/3 4/6 5/0 6/0 8/0 9/0 9/6 10/0 10/6 11/0 13/6 17/0 21/6 per doz. pairs. Bright Edges }
	25	LIGHT DRIVE HOOKS & } 6 7 8 9 10 12 14 15 16 17 18 20 22 24 inches. HINGES, Japanned, } 4/0 4/0 4/0 4/6 5/6 7/0 8/0 8/6 9/0 9/6 10/0 12/0 16/0 20/6 per doz. pairs. Bright Edges }
	26	LIGHT WEIGHTY SCOTCH Ts, Double Washered, Self Colour 6in. to 24in... per cwt.
	27	WEIGHTY LONDON Ts, ditto ditto 6in. to 18in... „
	28	DITTO GOTHIC SCOTCH Ts, ditto Japanned 6in. to 24in... „
	30	DITTO DITTO X GARNETS, ditto ditto 6in. to 24in... „
	31	DITTO STRAP ditto Self Colour 6in. to 20in... „
	32	DITTO HOOKS AND HINGES, to drive, or on plates, Japanned 6in. to 30in... „
	33	DITTO GOTHIC HOOKS & HINGES, to drive, or on plates, Japan'd.. 6in. to 20in .. „
	36	DOVETAIL..... 4in. to 5½in.... per cwt..... 6in. to 6½in... „
	38	BALCONY..... 2½in. „ 3in. .. „

Self Coloured Goods, if Japanned, 6d. per cwt. extra.

Hooks and Hinges, if Filed on Edges, 1s. „ „

ENGINEER, MACHINIST, TOOL MAKER, AND GENERAL MERCHANT, SHEFFIELD.

THE ILLUSTRATED SHEFFIELD LIST.

VERTICAL AND PORTABLE VERTICAL STEAM ENGINES.

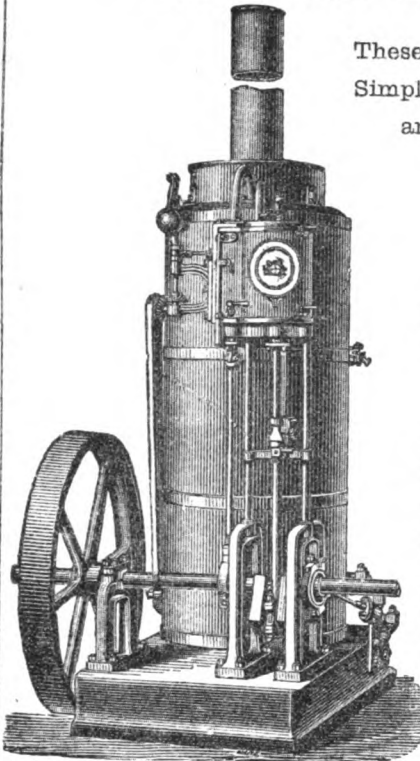
These Engines are unequalled for
Simplicity, Strength, Durability,
and Ease of Management.



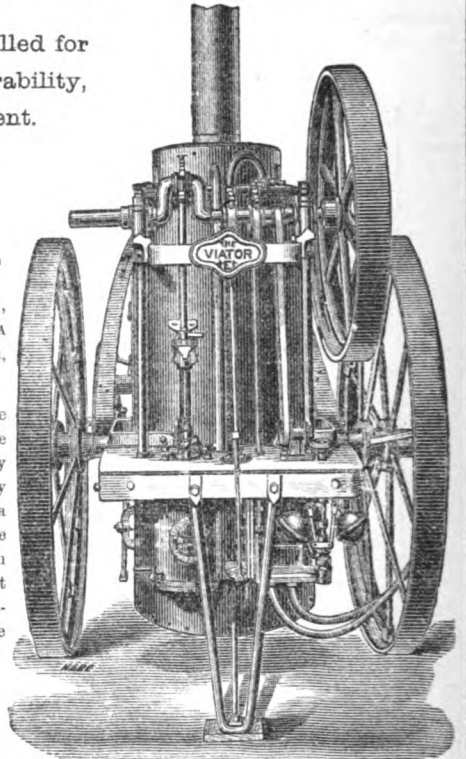
SPECIMEN TESTIMONIAL.

From C. S. MEDCALF, Esq.,
Engineer to the MUTLOCK TEA
Co., Limited, Debroghur, Assam,
Lahwae, East Indies.

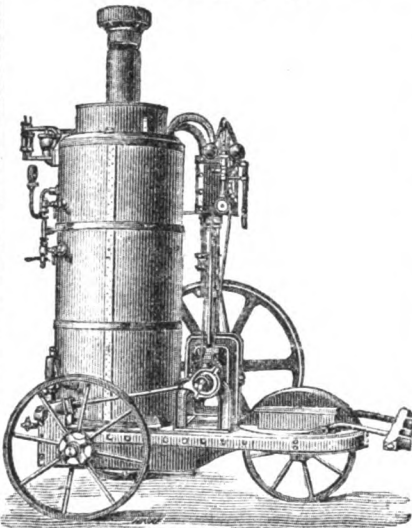
Your 8-H.P. Vertical Engine
does its work in first rate
style, working very smoothly
and with great power. It is very
easily managed, and is fixed in a
most simple manner. Being able
to look at the slides and steam
box when steam is up, is a great
convenience. All those gentle-
men who have been to see the
Engine at work are delighted.



VERTICAL ENGINE & BOILER COMBINED,
FOR STATIONARY USE.



THE "VIATOR" VERTICAL ENGINE & BOILER
COMBINED, on two 5 ft. Travelling Wheels.
Mark E, 4½-H.P., Price £100 | Mark F, 6-H.P., Price £120



VERTICAL ENGINE & BOILER COMBINED,
On Wrought Iron-framed Carriage, and extra
large Wrought Iron Wheels.

PRICES AND PARTICULARS OF VERTICAL STEAM ENGINES.

SINGLE CYLINDER ENGINES.

Mark on Cylinder, by which all Engines should be ordered ..	B	C	D	E	F	G	H	I	K	L	M
Average indicated H.P. at 45lbs.	1½	2	3	4½	6	7½	9	10½	12	15	18
Diameter of Cylinder in inches	3½	4	4½	5½	6½	7½	8½	9½	10½	11½	12½
Length of Stroke in inches	7	7	9	9	10	10	12	12	12	14	14
Height of Boiler, including Ash- pit, in feet and inches	4.4	4.7	6.0	6.0	6.6	6.10	7.2	7.5	7.9	8.6	8.10
Diameter of Boiler in ft. and in.	1.10	1.10	2.1	2.3	2.6	2.8	2.10	3.0	3.2	3.9	4.2
Price of Engine and Boiler com- bined, with all usual fittings.	£45	£52	£65	£75	£90	£105	£120	£135	£160	£185	£210
Price as above, on Patent High- wheeled Carriage, with all usual fittings	£50	£58	£75	£87	£105	..	..	..	..	..	..

DOUBLE CYLINDER ENGINES.

Mark on Cylinder, by which all Engines should be ordered ..	GG	HH	II
Average indicated H.P. at 45lbs.	15	18	21
Diameter of Cylinder in inches	7½	8½	8½
Length of stroke in inches	10	12	12
Height of Boiler, including Ashpit, in feet and inches	8.6	8.10	10.0
Diameter of Boiler in feet and inches	3.9	4.2	4.2
Price of Engine and Boiler combined, with all usual fittings	£210	£240	£270

Cost of Packing for Shipment Extra.

The dimensions and capacities given are approximate only.

FOR FURTHER PARTICULARS, &c., APPLY TO

Edward Brookes, Engineer, Machinist, Tool Maker, &c., High-st., Sheffield, England.

OF

ENGLISH.

GUJARATI.

Adzes—Anvils—Augers
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 Boilers
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 Blast Fans
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 Buffers
 Carpenters' Tools
 Carriage and Cart Springs
 Carvers' Tools
 Cast-Steel Wire
 Chains
 Coach Bolts and Screws
 Coach Springs [Spanners
 Coach Wrenches and Moveable
 Colliery Plant
 Copying Presses
 Coopers' Tools
 Corrugated Iron
 Cramps
 Cranes
 Carriers' Tools
 Dies and Press Tools
 Draining Tools
 Drilling Machines
 Edge Tools
 Engineers
 Engineers' Hydraulic
 Engineers' Hammers
 Engineers' Tools
 Engines, Horizontal
 „ Vertical
 „ Pumping
 Engravers' Tools
 Excavators' Tools
 Farriers' Tools
 Files and Rasps
 Fire Engines
 Forks (Agricultural), Hay, Manure
 and Digging
 Frying Pans
 Galvanized Iron

તાસણીઓ, મુથાર પાટાનાખનાર અને રેલ્લેટ ચલાવ-
 એરણ—કુહાડો અને ધરીઓ [નારના કામની
 ધમન
 બાઈલર
 બાઈલરને લગતા ઓબર
 બાઈલર બનાવનારના ઓબર
 ખીલા અડગરા રેવીટ અને ઈસકોર
 ભટ્ટીસાં પવનના પંખા
 પવન ફુકવાનો સાંચો
 તગ પટા અને લગામની ખીટ
 કેસારાના કામના ઓબરો
 બફરો
 મુથરના ઓબરો
 ગાડી અને ગાડાની કમાનો
 કોતર કામ કરનારના ઓબરો
 તીખાના તાર
 સાંકલો
 ગાડીના બોલટ અને ઈસકોર
 ગાડીની કમાનો
 ગાડીની પકડો અને નહાની મોહુટી થામે એવી ચાવીઓ
 કોલસાની ખાનને લગતા ઓબરો
 નકલ કરવાના પરેસો
 કોપરના ઓબર
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 ચાપડો
 ચારીઓ
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 ડીખાં તથા ડીખાં દાખવાના સાંચા
 ગટર કામના ઓબરો
 છેદ પાડવાના સાંચા
 અણીઆરા હથેલીઆરો
 ઈજનેર
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 ઈજનેરની હથેલીઓ
 ઈજનેરના ઓબરો
 સપાટ આડુ ઇજન
 ઊભુ ઇજન
 પુમખાને લગતા ઇજન
 કોતરકામકરનારના ઓબરો
 ખાદનારના હથેલીઆર
 નાલબદના હથેલીઆર
 કાનસો અને મારફા
 આગનો પુમખો
 ખેતીવાડીને લગતા ઘાસ તથા ખાતર ઊપાડવાના
 કાંટા
 તલવાના પેણા
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ENGLISH.

GUJARATI.

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 Garden Tools
 Gas Fitters' Tools
 Gas Tubes
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 Hoes, Garden and Plantation
 Hollow Ware
 Horticultural Implements & Tools
 Iron
 Iron Chains
 Iron Hearths
 Iron Merchants
 Iron and Metal
 Iron and Steel
 Iron Tanks and Cisterns
 Iron Tubes
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 Lancashire Tools
 Lathes and Tools
 Lifting and Traversing Jacks
 Machines and Machinery
 Machine Knives
 Machine Tools
 Malleable Iron
 Masons' Tools
 Miners' Lamps
 Mining Tools
 Music Wire
 Nails, Boat, Cut, Patent, Wrought
 Nippers and Pliers
 Oil, Kegs and Tanks
 Pickaxes
 Pig Iron
 Pincers
 Pistons and Piston Rods
 Planes
 Plane Irons
 Planing Machines
 Plantation Tools
 Plasterers' Tools

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 બગીચાના કામના ઓળરો
 ગ્યાસનુ બેડકામ કરનારના ઓળરો
 ગ્યાસની નલીઓ
 માપના ચંતો
 ટોપણો
 ટ્રીપેલું લોહોડું
 ટ્રીપેલું તીખલ
 હથોડીઓ
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 ભારી તીખાના રમકડા
 બાગ અને મલાના કામના ઓળરો
 પોકલ ધાતુનો માલ
 બાગાયતને કામના હથોડીઓ તથા ઓળરો
 લોહોડું
 લોહોડાની સાંકલો
 લોહોડાના ચુહુલા
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 લોહોડું અને તીખલ
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 બેડકામ કરનારના ઓળરો
 લાંકિશાયરના બનાવેલા ઓળરો
 સઘાડા અને તેનેલગતા ઓળરો
 ઊચકવાના અને આગલ પાછલ ચલાવવાના ડુમકલાસ
 સંચા અને સંચાકામ
 સંચાની છરીઓ
 સંચાકામના ઓળરો
 ટ્રીપાએ એવું લોહોડું
 ધાંડ ફોડાના હથોડીઓ
 ખાન ખોદનારના ફાનસો
 ખાન ખોદવાના ઓળરો
 વજનતરના તાર
 ખીલા, કાપલા બોટ પેટ અને ટ્રીપેલા
 ચીમટા અને સાણસીઓ
 તેલન. પીપ તથા ટાંકીઓ
 પીકાંઠિ
 લોહોડાના લાંદા ઓતવાને કામના, કાંડીઓ
 સાણસીઓ
 પીસ્ટન અને પીસ્ટનના સહીઆ
 રદા
 રદાના પાના
 રોખવાના સાંચા
 બાગાયતને લગતા ઓળર
 કલફારના ઓળરો

ENGLISH.	GUJARATI.
Portable Forges	ખીસાએ એવી ભટ્ટીઓ
Pulley and Snatch Blocks	કપ્પીઓ
Portable Vices	ખીસાએ એવા સેફકડા
Portable Vice-Benches	ખીસાએ એવી સેફકડા જડવાની બહારશીઓ
Pumps	બુમબા
Pumping Machinery	બુમબાનું સંચાકામ
Punching Machines	કાતરવાનો સાંચો
Punching and Shearing Machines	છેદપાડવાનું તથા કાતરવાનું સંચાકામ
Railway Axles, Buffers, Plant, Rails, Springs, Wagons and Wheels	આગ્ર જાડીની ધરીઓ, બફરો, રેલ, કમાન ગ્રાડા, ચાક તથા સર્વે સામન
Ratchet Braces	મારફા
Reaping Machine Knives	કાપણી કરવાની સંચાની છરીઓ
Rivets	રીવીટો
Saws	કરવતો
Saw Benches	કરવતની બહારશીઓ
Screws, Brass and Iron	પીતલના તથા લોહોડાના ઇસકોરૂ
Screw Bolts	ઇસકોરૂના ખીલા
Screw Cutting Lathes and Machines	ઇસકોરૂના આંટા પાડવાના સંધાડા તથા સંચા
Screw Lifting & Traversing Jacks	ઇસકોરૂના ઊંચકવાના તથા ખીસાકવાના ડુમકલાસ
Screw Presses	ઇસકોરૂના પરેસ
Screw Stocks, Dies and Taps	ઇસકોરૂના આંટા બનાવાની પાટ્રીઓ, ડીબા તથા ટ્યૂબો
Scythes	કોઈતાં
Sheep Shears	ઊનકાપવાની કાતરો
Ship Scrapers	વહાણુ ઓખવવાના હુથીઆર
Shipping Tackle	વહાણુને લગતા ઓળરો
Ships' Tanks	વહાણુની ટાંકીઓ
Sickles and Reaping-Hooks	દાતરડાં અને કાપણી કરવાના હુક
Skates	લોખંડના ભેડા
Stocks and Dies	પાટ્રીઓ તથા ઇસ્સા
Telegraph Erectors' Tools	વીજલીના તાર ઊભા કરવાના ઓળરો
Telegraph Wire	વીજલીના તાર
„ Draw Vices and Tools	વીજલીના ખીસાએ એવા સેફકડા તથા ઓળરો
Tools, (Edge)	અણીઆરા હુથીઆરો
„ Engineers' and Machine	ઇજનેરના ઓળરો તથા ચંતો
„ Carpenters' and Joiners'	મુથાર અને ભેડકામ કરનારના હુથીઆરો
„ Braziers', Copper-Smiths' and Tinmen's	કસારી કલઈગર અને કારીગરના હુથીઆરો
Tool Chests for Emigrants, Joiners, Gentlemen and Youths	ઓળરની પેટ્રીઓ, પરદેશમાં જનારાઓ, ભેડકામ કરનાર — ગ્રહસ્થો અને છોકરાઓને લાચકની
Tubes, Iron [Portable	લોહોડાની નલીઓ
Vices, Bench, Steeple, Parallel, Wire	સેફકડા, બહારશીસાથના ખીસાએ એવા ઊભા અને આડા તાર
Wire Ropes, Round and Flat	તારના દોરડાં, ગાલ અને ચપટા
Wood Screws	લાકડાના ઇસકોરૂ

THE ILLUSTRATED SHEFFIELD LIST.

ENGLISH.	FRANCAIS.	GERMAN OR DEUTSCH.	PORTUGUEZ.	ESPANA.	ITALIANO.
Anvils Armour Plates Augers Axes Axletrees Bellows Blast Fans Blowing Machinery Boilers Boiler Fittings Boiler Makers' Tools Bolts, Nuts, Rivets, and Screws Braces and Bits Bolts, Iron and Brass Bolts, Coach and Door Braziers and Coppermiths Buffers	Enclumes Plagues à Armure Tarières Essieux Essieux (arbres) Soufflets Evénails à Soufflo Mécanisme Soufflant Bouilloires, Chaudières, Chaudrons Adjustemens de Chaudières Outils pour fabricants de Chaudières Verroux, Ecrous, Rivets et Vis Liens et Mors, Bracs et Bittes Boulons, Verroux Boulons, Verroux Chaudronniers Tampons	Ambosse Harnisch und Rüstungs Platten Schneckenbohrer Achsen Wagenachsen Blasebülge Windfächer Gebläsemaschinen Dampfkessel, Kessel Dampfkesselszubehör Bolzen, Schraubenmitteln-Nieten, Klamern, und Schrauben Bohrwinden & Bohrer Bolzen Schrauben Kupfer-schmiede Buffer	Biz e Torquze Eixos Eixos para (Carruagens) Caldeiras Ferramenta para Caldeiras Porc e perrohl, Ferrolh ; epocas, - gato Pocas e perrohl Caldeiros de Cobre Aco Defezas	Ayunques Plancha de armadura Barrénas Ejes, Ejes de Acero Ejes (para Carruages) Pañiles Sople de ayre Maquinas de Sople Caldeiras Armadura de Caldeiras Herramientas para Caldeiras Tuercas y Tornillos y Remache Corchetes y Gusanillos Carrójos Tornillos y Tuercas Caldereros Tampones de Acero	Inudina Piastra di Armadura Succhialo Assi, Asse di Acciaio Assi Carrozzi Soffietto Soffio d'aria Macchini di Soffiare Caldaie Armatura de Caldaie Utensili di Caldaie Rebadituri & Vitei Coppia & Bocone Lavatori in Ferro Calderai Cusini di Acciaio
Carpenters' Tools Carriage and Cart Springs Carvers' Tools Cast Steel Rails Cast Steel Wire Chaff Cutters Chains Coach Bolts Coach Bolts and Screws Coach Hames Coachmakers' Tools Colliery Plant Coach Springs Coach Wrenches & Movable Spanners Copying Presses Coopers' Tools Corrugated Iron Cranes Grumps Gunners' Tools	Outils pour Charpentiers Ressorts à Wagons et Voitures Outils de Sculpteur Rails d'acier fondu Fils d'acier fondu Couteaux à hache-paible Chaines Boulons pour Voitures Verrous et vis pour Voitures Attelles Outils pour Carrossiers Plant pour Mines de Charbon Ressorts à Voitures et Charettes Empans pour Voitures Presses à Copier Outils pour Tonneliers Ferraine, Fer plissé Grues Crotchets Outils pour corroyeurs	Zimmermanns' Werkzeuge Wagen und Karrenfedern Bilbauerwerkzeuge Guss-Stahl Eisenbahn schienen Guss-Stahlrätthe Stroh Ketten Wagen Schrauben Wagenbolzen und Schrauben Harnen Wagenmacherwerkzeuge Kohlenbergwerkgeräth Wagenfedern Wagen-Schlüssel Copirpressen Fassbinderwerkzeuge Geripptes Eisen Krahnen Klammern Gerberwerkzeuge	Carpinteiros, Ferramentas, Carpinteiros Marceneiros Molas para Carruagens Escultores Ferramentas Aco ou Comb Frithos Aco Fundido Verga Cadenas Carruages Pochas Carruages Pochas Utensilios Carruages Carruages Utensilios Tancoiros Ferramento Guindastes Surraadores Ferramentas	Herramientas de Carpinteiros Resortes para Carricages Herramientas para Escultores Acero Carriles Rails de Verga de Acero Fundido Cortador de Zurrón Cad on Corrientes Carruages Tornillos Carruages Tornillos Utensilios Carruages Planta de Mina Carruage Resortes Carruage Utensilios Imprenta de Copiante Herramientas de Tonerlos Hierro Arrugado Gruas Grapas de Alier Curtidores Herramientas	Utensili de Falegnani Molle per Carrozzi Scultori Utensili Acciaio Strada, Ferrate Acciaio Fuso Coltelli di Macchina Catena Ruolos Carrozzi Lavatori in Ferro Utensilia Carozzi Macchine de Mina Carozzi Molle Carozzi Utensili Torchio di Copia Barili Utensili Argano Ferro pienodi grinzse Lavaret, di pelli Utensili

ENGLISH.	FRANCAIS.	GERMAN OR DEUTSCH.	PORTUGUEZ.	ESPANA.	ITALIANO.
Digging Forks Dies and Press Tools Draining Tools Drilling Machines	Fourchettes pour piocheurs Teinture Outils pour égoûtage Machines pour vriller	Grabergabeln Stempelpressen Drainirwerkzeuge Bohrmaschinen	Ancinhos	Horas para azadonar Utensillos d'Aprensar Herramienta de Desaguar Maquinas de Taladro	Forconia a Zappare Utensili de Fognare Macchinas di Forare
Edge Tools	Outils, tranchants	Schneidewerkzeuge, Stahl-werk- zeuge, Schneidewaren	Ferr : de Gume, de Corte	Herramientas Cortante	Utensili Tagliando
Engineers	Ingenieurs, Constructeurs de Machines	Mechaniker, Ingenieure	Enginheiros, Maschinere	Ingenieros	Ingegnieri
Engineers', Hydraulic Engines	Ingenieurs Hydraulique Locomotives	Hydraulische Maschinen Locomotiven	Enginheiros Hydraulic Maschinere Engin	Ingenieros Hydraulicos Ingini	Ingegnieri Idrolici Ingegi (Locomotive)
Engines, Vertical	Machines	Maschinen Liegende			(Ditto Verticale)
Engines, Horizontal	Pompes Maschin	Ditto Stiehende			(Ditto Horizontale)
Engines, Pumping	Marteau pour ingénieurs	Ditto Pumpen			(Ditto di Tromba)
Engineers' Hammers	Outils pour ingénieurs	Schlosserhammer			
Ditto Tools	Outils pour graveurs	Werkzeuge	Enginheiros Ferramentas	Ingini de Bomba	Ingegnieri Utensili
Engravers' Tools	Ditto excavateurs	Kupferstecherwerkzeuge		Ingenieros herramienta Herramientas de Grabador	Utens : d'Intagliatore
Excavators' Tools		Erdbarbeiterwerkzeuge		Ditto de Lascar	Utens : di Scavare
Farriers' Tools	Outils pour maréchal ferrant	Hufschmiedswerkzeuge	Facas para Farader ou Alveitas	Cuchillos de Herrador Limas y Raspas	Coltelli per Veterinari Lime
Files and Rasps	Limes	Feilen	Limas p Serras	Bombas de Incendios	delle Uncini
Fire Engines	Pompes à Incondie	Feuer Spritzen	Bombas de Fogo	Guerta Plano de Acero	Forconi di Acciaio
Flat Ropes	Cordes Plates	Flascheile	Forquinhos Garfos Aco	Horas de Acero	
Forks (Agricultural), Hay, Manure, and Digging	Fourchettes (d'Agriculture) Four- ches à foin, à fumier, et à Terrasement	Landwirthsgabeln, Hen Dungen, und Erd Gabeln	Garfos Forquinhos Aco	Tenedores Horcas de Acero	Forchetti Forconi de Acciaio
Forks	Fourchettes	Gabeln			
Forks, Cast Steel	Fourchettes à foin, à fumier	Hen, Dünger, und Erd Gabeln			
Forks, Hay and Manure	Ditto et à terrasement	Bratpfannen			
Frying Pans	Poêles à frire				
Galvanized Iron Ware	Galvanisatione du fer Fer Galvanisé	Galvanisirtes Eisen	Ferro Galvan Ferro Galvan	Hierro Galv Hierro Galv	Ferro Bianco Ferro Bianco
Garden Engines & Syringes	Instruments de horticulture	Garden Spritzen	Giardina Instrumentos	Herramientas Instrumentos	Giardinieri Instrumenti
Garden Tools	Outils de Jardinage et de horticulture	Gartenwerkzeuge	Horticulturalistas ferramen- tas	Horticultural herramienta	Giardinieri Utensili
Gasfitters' Tools	Outils pour gaziers	Gasmontourwerkzeuge	Gaz Almac de Aparat	Aparelhadores de Gaz	Lavor : in Utensili in Gaz
Gas Burners	Becs à gaz, Consommateurs de gaz	Gas Brenner	Gaz Candeiros	Gaz Lamparas	Gas Lampa
Gas Fittings	Appareils de gaz, Fournitures pour gaz	Gegensände für Gaz. Einrich- tungen	Gaz Aparatos	Gaz Aparatos	Gas Aparati
Gas Tubes	Gaz Tuyaux de plomb	Gas Röhren (Blei)	Tubos de Gaz de Chambo	Tubos de Gas de plomo	Tubi di Gaz, di pionibe
Gas Engineers	Gaz Ingénieurs	Gas Ingenieure	Engueiros de Gaz	Ingoueros de Gas	Ingegnieri di Gaz
Gauges	Instruments à Jauger	Eich. Instrument			
Girders	Pontres en fer	Eisen (Träger)		Quartons de Hierro	Travicello di Ferro
Gimlets	Petit Tauières	Bobett		Barrenas	Coppia

ENGLISH.	FRANCAIS.	GERMAN OR DEUTSCH.	PORTUGUEZ.	ESPANA.	ITALIANO.
Masons' Tools Mining Tools Miners' Lamps Music Wire	Outils pour maçons Outils pour mineur Lampes de Mineurs Cordes d'instruments de musique	Mauerwerkzeuge Bergmannswerkzeuge Bergmanns Lampen Saiten	Ferramentas (Minas) Minas Candiores Musica Verga	Herramientas para Albanil Herramientas Mineros Minas Lamparas Musica Alambres	Utens : per Muratores Utensili: Mini Mini Lampi Musici Tela
Nails Nippers and Pliers Nuts and Bolts	Clous Pincettes Ecrans et Verroux, Ecrans Boulons	Nägel Zangen Schrauben Muttern und Riegel Schrauben, Bolzen	Pregos Perroli e pocas	Clavos Alicates Tuercas y Tornillos	Chiodi Ribattura & Vite, Lavatori in ferro
Oil Tanks and Kegs	Epurateurs d'Huiles	Reservoirs (Oel) Wasser-behälter	Azeite de Tanques	Acete de Cisternas	Olio di Cisterne
Pickaxes Pig Iron Pincers Piston Rods Planes Plane Irons Plantation Tools	Pioches Saumons de Fer Pincettes Baguettes de piston Rabots Fers de Rabots Outils pour Plantations	Spitzhacken Hochofeneisen Zangen Kolbenstangen Hobel Hobeleisen Pflanzerwerkzeuge	Planas Herramientas de Cultiva- doras	Picos Hiero Crudo Tenazuelas Varilla de Embolo Planos	Mazuolo Ferro Crudo Tanghile Verga di Ferro per Pistones Piallas
Plasterers' Tools Portable Forges Pulley Blocks Portable Vice Benches Pumps Pumping Machinery Punching Machines Punching and Shearing Machines	Outils pour plâtres Forges Portatives Poulies Bancs portatifs à Vices, étaux Pompes Machines à pomper Machines à emporte-pièce Machines à piercer à percer et à Tondre	Verputzerwerkzeuge Tragbare Schmiedeherde Blöcke für Flaschenzüge Tragbare Schraubstöcke Pumpen Pump Maschinen Lochmaschinen Loch und Sheer Maschinen		Herramientos de Cultivadores Herramientos de Estuadores Fragua Portatil Tornillo Portatil Bombas Maquinas para Bomba Maquinas para Ponzon Maquinas para Ponzon y Tixeras Grandes	Utens : per Piantitores Utens : d'Impiastros Focolare Portabile Tanaglia Portabile Trombas Tromba Macchina Maach : per Punteruolo Maach : per Forbici Strada Ferrate
Railway Axles Railway Buffers Railway Chairs Railway Plant Railway Rails Railway Springs Railway Wheels Railway Wagons Rasps Ratchet Braces Reaping Hooks Reaping Machine Knives Rivets	Essieux de chemin de fer Tampons de chemin de fer Bancs et fauteuils de fer Matériel de fer Rails de fer Elastiques, Ressorts de fer Roues de fer Wagons de fer Râpes Bandages et des anglais Crochets à moissonner Couteux de Machines à moissonner Attaches Rivets	Eisenbahnwagenachsen Eisenbahnbuffer Schienenstühle Eisenbahnmateriel Eisenbahnschienen (Stahl) Eisenbahnschienen federn Eisenbahnschienen räder Eisenbahnschienen wagen Raspen Bohrnarre Sicheln Mahmaschinenmesser Nieten	Ferro. ou Comb. Eixos Aco Defezas Feros ou Comb Material Frithos Aco Molas Aco Car : ou Corroc p Caminho Limas p Serras Gato (Instrum)	Ferros Carriles Ejès Tapones de Acero Ejès Sillas de Ferrocarril Material de Ferrocarril Rails de Acero Resortes de Acero Rueda para Ferrocarril Wagons de Ferro Carriles Limas de Acero Hoz Cuchillos para Maquinas du Agosto Rem. y Robrones	Asse di Acciaio Stradda Ferrate Cuscini di Acciaio Stradda Ferrate Faber Strada Ferrate Ferrate di Acciaio Mollar di Accaio Rusta di Stradda Ferrate Carozza Stradda Ferrate Lime di Acciaio Corchetes Falce Coltelli di Maach : per Mietero Ribaldiere

ENGLISH.	FRANCAIS.	GERMAN OR DEUTSCH.	PORTUGUEZ.	ESPANA.	ITALIANO.
Saws	Scies	Sägen	Serras	Aserar, Sierras de Acero	Seghetti di Acciaio
Saw Benches	Établis à Scie	Sägebänke		Banco de Aserar	
Screws	Vis	Schrauben			Utens : per Fare Vite
Screw Stocks, Taps, and Dies	Vis, billots, robinets, et estampes	Schraubenkluppen und Gewindebohrer			Macch : per l'are Vite
Screw Cutting Machines	Machines à couper vis	Schraubenschneidmaschinen			Vite and Rebaditura
Screw Presses	Pressea Vis	Schraubendruckpressen			Falces
Screw Bolts	Chevilles de Vis	Schraubn Bolzen			
Seythes	Faux	Seusen		Tueras y Tornillos	
Screw and Lifting Jacks	Vis Cries	Wagenwinden		Guadamas	
Sheep Shears	Ciseaux à moutons	Schaf-schere			
Ship Scrapers	Decrotoirs à navires	Schiffskratzer			
Ship Tanks	Citernes à navires	Schiffwasserbekälter			
Shipping Tackle	Cordages d'un vaisseau	Schiffseile	Navios Tanques		
Sickles	Fanilles	Sicheln			
Skates	Patins	Schlittschuhen			
Smiths' Bellows	Soufflets pour forgerons	Schmiedebälge			
Spades and Shovels	Échets et pelles	Spaten und Schaufeln			
Spirit Levels	Niveaux à Bulle d'Air	Wasserwaagen			
Springs	Ressorts ou elastiques	Federn			
Springs, Spiral	Ressorts en spirales	Spiralfedern			
Springs, Carriage and Cart	Ressorts à Voitures et charrettes	Wagen und Karrenfedern			
Springs, Coach	Ressorts à Voitures et charrettes	Wagenfedern			
Springs, Wagon and Railway	Ressorts à wagons de chemin de fer	Eisenbahnwagenfedern			
Springs, Valve	Ressorts à valve	Ventilfedern			
Springs, Buffer	Ressorts à tampon	Bufferfedern			
Spring Steel	Acier à ressort	Federstahl			
Steam Cranes	Grues	Dampfwinden			
Steam Engines	Locomotives	Locomotiven			
Steam Winches	Manivelles à Vapour	Dampfwinden			
Steel	Acier	Stahl			
Steel, Bessemer	Acier Bessemer	Stahl Bessemer			
Steel, Blister	Acier Soufflé	Stahl Blasen			
Steel, Cast	Acier Fondu	Stahl Guss			
Steel, Crucible Castings	Pièces en acier fondu	Stahl Tiegelgusstücke			
	creusé				
Steel, Shear	Acier raffiné	Stahl Raffinirt			
Steel, Mushets	Acier Mushet	Stahl Mushet			
Steel, Spring	Acier à ressort	Stahl Feder			
Steel, Titanic	Acier Titanic	Stahl Titanic			
Steel, Homogeneous	Acier homogène	Stahl Homogenisch			
Steel Castings and Forgings	Pièces en acier, fondu et brutes de forge	Stahl Guss und Schmiedestücke			
Steel Axles	Essieux en acier	Stahl Achsen			
Steel, Bessemer and other	Plaques en acier Bessemer et autres	Bessemer und andere			
	qualité, à charrues	pflug platten			
Steel Buffers	Tampons en acier	Stahl Buffer			
Steel Forks	Fourches en acier	Stahl Gabeln			
Steel Files	Limes en acier	Stahl Feilen			

ENGLISH.	FRANCAIS.	GERMAN OR DEUTSCH.	PORTUGUEZ.	ESPANA.	ITALIANO.
Steel Puddled Steel Plates	Plaques en acier puddlé	Puddeleisplatten	Aco Chapas para Caldeiras	Laminas de Acero fundidas y Acri-	Piastre di acciaio malle-
Steel Boiler Plates	Plaques en acier pour chaudières	Stahl Dampfkesselplatten	Trithas	soladas	abite
Steel Rails	Rails en acier	Stahl Schienen	Tarrachas e cunhos	Rails de Acero	Ferrate di acciaio
Steel Toys, heavy	Joujou d'Acier	Stahl Spielzeuge	Tanques	Churcheras de Acero	Giocattoli d'acciaio
Stocks and Dies	Manches et estampes	Hammerstöße und Stempel	Arame para Telegraphos	Hileras y punzones	Manici e stampetalle
Tanks	Fer Réservoirs	Wasserbehälter	Instrumentes Telegraphos	Cisternas	Cisternae
Telegraph Wire	Fil Telegraphique	Telegraphendraht	Earr : de Gume, de Corte	Alambres para Telegrafos	Filo per Telegrafo
Telegraph Instruments	Outils tranchants	Telegraphen Instrumente	Ferr. de Engeneheirose Mac-	Telegraphos Instrumentos	Telegraphie Instrumenti
Tools, Edge	Outils d'Ingenieurs	Schneidwerkzeuge	hinistas	Herramienta Utensillos Cortantes	Utensili tagliando
Tools, Engineering and Machine	Outils de Charpentiers et de menuisiers	Werkzeuge für Zimmer und Schreinertente	Carpinteiros Ferramentas	Herramienta id par Maquinas	Uten ili per Macchine
Joiners' Tools	Outil de Ferblantier	Werkzeuge für Blecharbeiter	Carpinteiros Marcenciros	Id para Carpintero y ensam-blador	Utensili di falegnani
Timmens' Tools	Boites à outils	Werkzeuge für Werkzeugkasten	Fabric de Ferramentas	Hojalateros Herramientas	Manif : de Latti Utensili
Tool Chests	Tuyaux de Fer	Eisen Röhren	Caixas	Herramientas Cajoneria	Utensili Scatole
Tubes, Iron	Soupapes	Ventile	Tubos de Fer	Tubos de Hierro	Tubi di Ferro
Valves	Etaux	Schraubstücke	Arame, Verga	Valvula	Valva
Vices	Fil	Drähte	Arame, Verga Corda ou Cabo	Tornillos	Tanaglia
Wire	Câbles defil métallique	Drathteile		Alambres	Tela Filo
Wire Ropes	Tréfilageurs	Holz Schrauben		Cuerda d'Alambres	Tella Corda
Wood Screws					

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